Designed for the







Installation Guide

Model BLJ18-OM



FOR THE LOVE OF SEWING

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Installation Guide

For the



On the Majestic frame

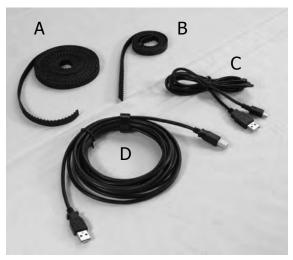


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Parts Included: List A



- A- Long Belt-Bottom Carriage (Pre-installed) (1)
- B- Short Belt-Sewing Machine (1)
- C- LCD Cable (1)
- D- USB Cable (1)

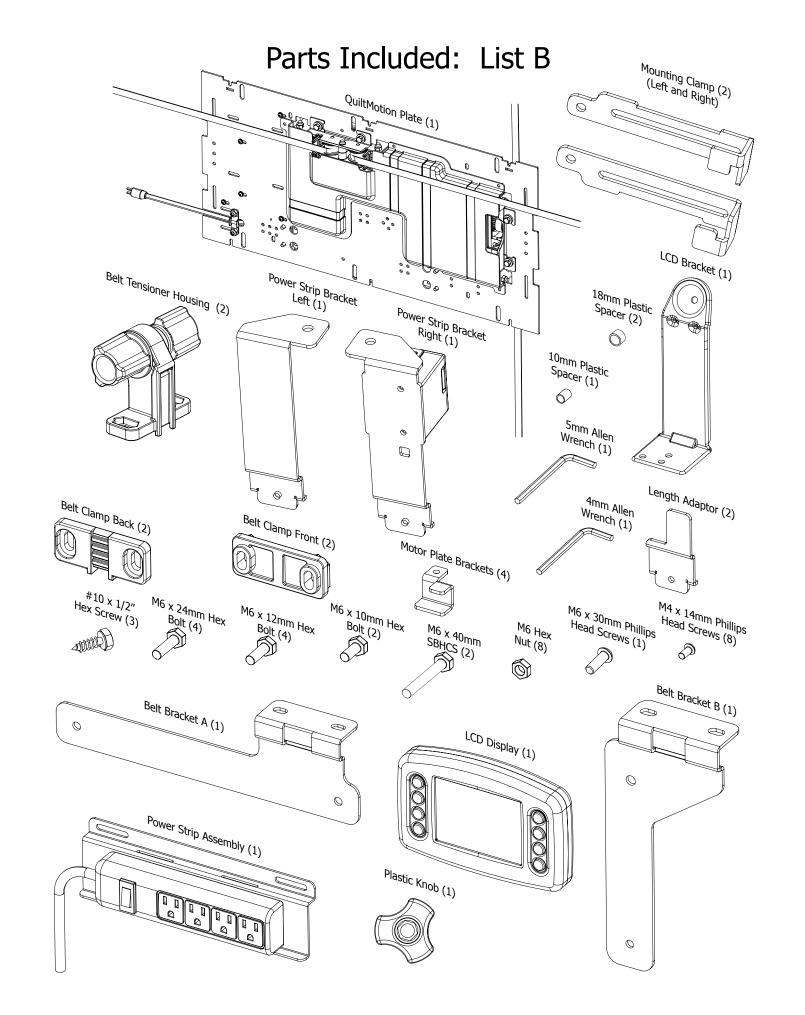


Short Ribbon Cable (1)



Zip Ties (10)

Zip Tie Mounts (7)



Additional Tools Needed:

Phillips Screw Driver Adjustable Wrench Level (to ensure the frame is level)

Step 1: QuiltMotion Plate Installation

Parts Needed:

- 1- QuiltMotion Plate
- 4- Motor Plate Brackets
- 2- Power Strip Brackets
- 2- Length Adaptors
- 1- Power Strip
- 7- M4 x 14mm Phillips Head Screw
- 2- M6 x 10mm Hex Bolt
- 1- Short Ribbon Cable

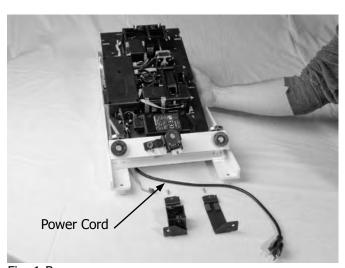


Fig. 1-B

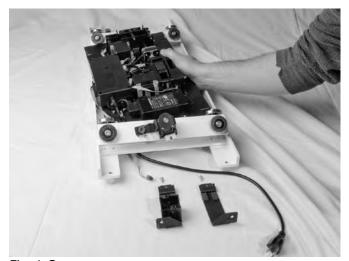


Fig. 1-C

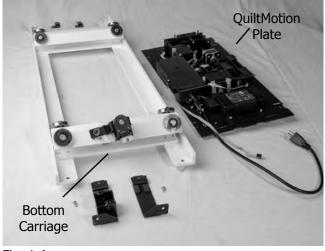


Fig. 1-A

- **1-1.** Turn your bottom carriage upside down and make sure the back of the carriage (side with the encoder) is facing towards you, as shown in Fig. 1-A.
- **1-2.** Place your QuiltMotion Motor Plate inside your bottom carriage, noting the direction shown in
- Fig. 1-B. Make sure the power cord and cable go underneath the bottom carriage.

Note: You will need to slide the QuiltMotion Plate all the way to the end of the carriage, then tilt it in order to fit it in place in the bottom carriage (see Fig. 1-C).

1-3. Next, you will install your two (2) Power Strip Brackets (left and right), using two (2) M4 x 14mm Phillips Head Screws (see Fig. 1-D).

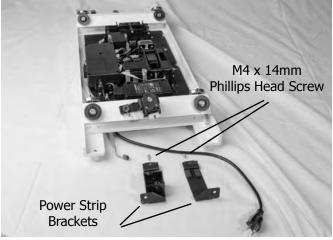


Fig. 1-D Pg. 5

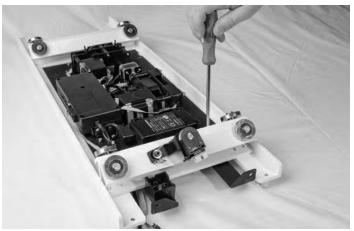


Fig. 1-E

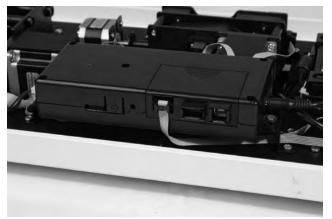


Fig. 1-F

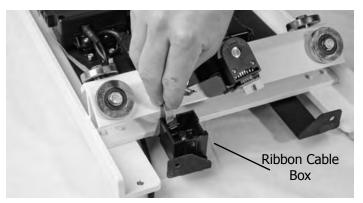


Fig. 1-G



Fig. 1-H Pa. 6

- **1-4.** Attach the two (2) Power Strip Brackets to the back of the QuiltMotion Plate by lining up these brackets under the two slots of the motor plate. Thread the two (2) M4 x 14mm Screws down through the slots, and into the brackets as shown in Fig. 1-E. **NOTE:** Before tightening completely, be sure the plate is properly aligned with the carriage.
- **1-5.** There is a ribbon cable already installed with one end plugged into the QuiltMotion plate as shown in Fig. 1-F. Remove the cover of the Ribbon Cable Box on the left Power Strip Bracket and plug the other end of this cable into the Power Strip Bracket as shown in Fig. 1-G.
- **1-6.** Take the short ribbon cable that came in the QuiltMotion package, plug one end of this cable into encoder lever and the other end into the Power Strip Bracket as shown in Fig. 1-H. Do not replace the lid of the cable box in the Power Strip Bracket yet, leave it off for now.
- **1-7.** Next, on the opposite end of the carriage install the two (2) Length Adaptors using two (2) M4 x 14mm Screws, as shown in Fig. 1-I.

Attach the two (2) Length Adaptors to the QuiltMotion Plate in the same manner as the Power Strip Brackets in the previous step, by threading the two (2) M4 x 14mm Screws through the slots of the QuiltMotion Plate and Length Adaptors.

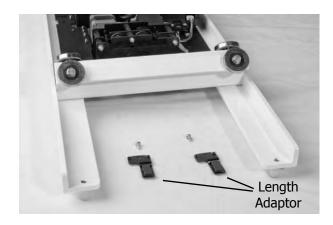


Fig. 1-I



Fig. 1-J

1-8. Turn your carriage onto its side and attach the four (4) Motor Plate Brackets onto the QuiltMotion plate using the four (4) M4 x 14mm Phillips Head Screws. Insert the M4 x 14mm Phillips Head Screws from the underneath side of the carriage, as shown in Fig. 1-J, and 1-K.



Fig. 1-K

1-9. Next, you will install the Power Strip to the Power Strip Bracket on your carriage as shown in Fig. 1-L and 1-M. Turn your carriage upside down again and return to the end of your carriage with the Power Strip Brackets. Thread two (2) M6 x 10mm Hex Bolts through the slots of the Power Strip and into the threaded holes of the Power Strip Brackets. Tighten these completely.

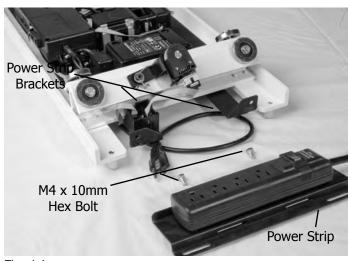


Fig. 1-L

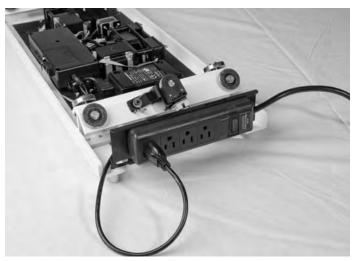


Fig. 1-M

Step 2: Belt Bracket Assembly

Parts Needed:

- 1- Belt Bracket A
- 1- Belt Bracket B
- 1- Belt Clamp Front
- 1- Belt Clamp Back
- 1- Belt Tensioner Housing
- 2- M6 x 12mm Hex Bolt
- 2- M6 x 24mm Hex Bolt
- 4- M6 Hex Nut

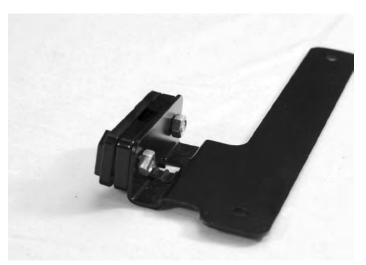


Fig. 2-B

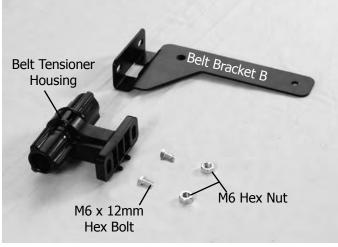


Fig. 2-C

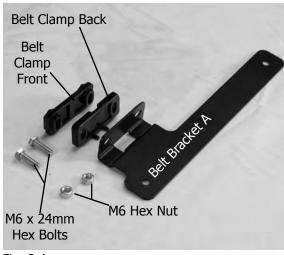


Fig. 2-A

2-1. Attach one (1) Belt Clamp Front and one (1) Belt Clamp Back to one (1) Belt Bracket A using two (2) M6 x 24mm Hex Bolts and two (2) M6 Hex Nuts, as shown in Fig. 2-A. Thread the bolts into the nuts only until they grab the first thread, so that the front and back clamps remain loose, as shown in Fig. 2-B.

2-2. Now you will assemble one (1) Belt Tensioner Housing to Belt Bracket B. Do this by threading two (2) M6 x 12 Hex Head Bolts through the two holes in the plastic housing piece and into the Belt Bracket B. Secure these in place using two (2) M6 hex nuts and tighten completely, as shown in Fig. 2-C and 2-D.



Fig. 2-D

Step 3: Mounting Clamp Assembly

Parts Needed:

- 2- Mounting Clamp
- 1- Belt Clamp Front
- 1- Belt Clamp Back
- 1- Belt Tensioner Housing
- 1- Short Belt
- 2- M6 x 12mm Hex Bolt
- 2- M6 x 24mm Hex Bolt
- 4- M6 Hex Nut



Fig. 3-B

- **3-2.** Attach one (1) Belt Clamp Front and one (1) Belt Clamp Back to one (1) Mounting Clamp using two (2) M6 x 24mm Hex Bolts and two (2) M6 Hex Nuts, as shown in Fig. 3-C. Thread the bolts into the nuts only until they grab the first thread, so that the front and back clamps remain loose.
- **3-3.** Slide the belt between the back and front Belt Clamps, as show in Fig. 3-D (make careful note of the direction of the belt teeth), and then tighten the hex bolts.

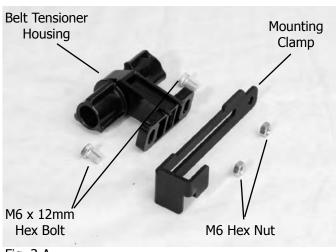


Fig. 3-A

3-1. Attach one (1) Belt Tensioner Housing to one (1) Mounting Clamp using two (2) M6 x 12mm Hex Head Bolts and two (2) M6 Hex Nuts, as shown in Fig. 3-A and 3-B.

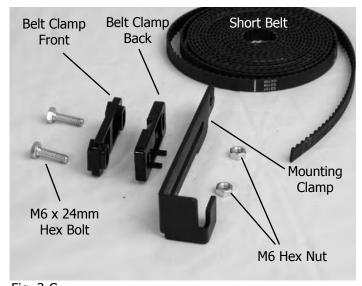
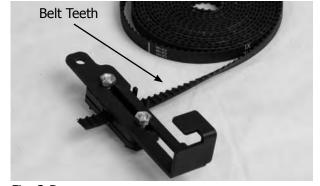


Fig. 3-C



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Fig. 3-D

Step 4: Belt Bracket to Sewing Machine

Parts Needed:

- 1- Belt Bracket A Assembly
- 1- Belt Bracket B Assembly
- 1- M6 x 30mm Phillips Head Screw
- 3- #10 x 1/2" Hex Screw
- 1- 10mm Plastic Spacer

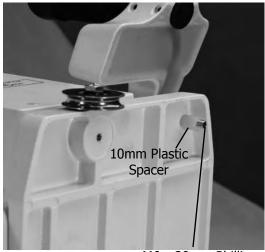


Fig. 4-B

M6 x 30mm Phillips Head Screw

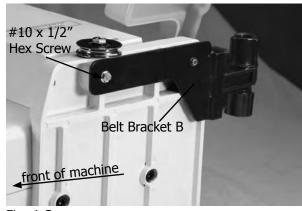


Fig. 4-C

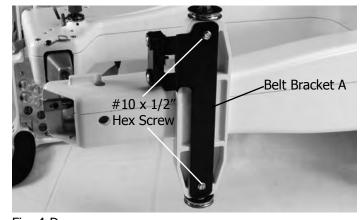


Fig. 4-D

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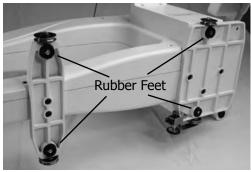


Fig. 4-A

- **4-1.** To install the Belt Brackets onto your Baby Lock Jewel machine, you will first need to carefully place the machine on its side. Looking at the machine from the front (needle side), you will lay it on its left side, exposing the rubber feet as shown in Fig. 4-A.
- **4-2.** If you have rubber feet on the bottom of your machine remove all the feet by unscrewing the flat-headed screw in the middle of each foot, as shown in Fig. 4-A.
- **4-3.** You will now install the Belt Bracket B. To do this, first install a M6 x 30mm Phillips Head Screw into the back hole (from the top of the machine), as shown in Fig. 4-B.
- **4-4.** Place the 10mm Plastic Spacer onto the screw.
- **4-5.** Place the Belt Bracket B over this bolt and over the other hole, as shown in Fig. 4-C. Use one (1) $\#10 \times 1/2$ " Hex Screw by placing it through the other hole of the Belt Bracket B, as pictured, and tighten the screw. Do not over tighten the screw.
- **4-6.** Using the included Allen wrench, tighten the socket button head cap screw (with Plastic Spacer), threading it through Belt Bracket B.
- **4-7.** Install the Belt Bracket A where the two feet used to be. Make sure the belt clamp attachment is facing toward the front of the machine, as shown (Fig. 4-D).
- **4-8.** Secure this Belt Bracket A using the remaining two (2) $#10 \times 1/2$ " Hex Screw, tightening them completely as shown in Fig. 4-D.

Step 5: LCD Installation

Parts Needed:

- 1- LCD Display
- 1- LCD Bracket
- 1- Plastic Knob

NOTE: Before you proceed, disconnect the ribbon cable that connects the handle bar to the machine.

5-1. Using a 5mm Allen Wrench you will remove the Jewel Handle Bar, by removing the two (2) screw shown in Fig. 5-A.

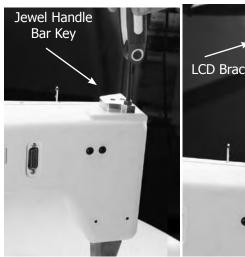




Fig. 5-B

Fig. 5-C



Fig. 5-D



- **5-2.** Using the same 5mm Allen Wrench you will remove the Jewel Handle Bar Key Block, by removing the screw shown in Fig. 5-B.
- **5-3.** Now, place your LCD Bracket on the machine and then replace the Jewel Handle Bar Key Block, being sure all three holes line up, as shown in Fig. 5-C, using the same screw you removed from the machine in step 3.
- **5-4.** Reattach the Jewel Handle Bar, as shown in Fig. 5-D, using the same screws you removed from the machine in step 2.
- **5-5**. Slip the bolt on the back of the LCD through the hole in your LCD Bracket and then secure it using the plastic knob, as shown in Fig. 5-E.
- **5-6.** Next, reconnect the handle bar ribbon cable you disconnected at the beginning of this process.



Fig. 5-E

Step 6: Mounting Clamp to Frame Assembly

Parts Needed:

- 1- Belt Clamp Assembly
- 1- Belt Tensioner Housing Assembly
- 2- M6x40mm Hex Bolts
- 2- 18mm Plastic Spacer

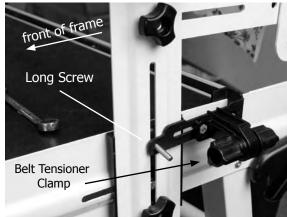


Fig. 6-C



Fig. 6-D



Fig. 6-E







Fig. 6-B

- **6-1.** Using a wrench, unscrew the take-up rail end from frame. Then unscrew the black plastic knob and remove the screw behind the knob as shown in Fig. 6-A and 6-B.
- **6-2**. Replace the screw you just removed with a M6x40mm Hex Bolt. Slide one end of the Belt Tensioner Clamp (assembled in step 3) over the M6x40mm Hex Bolt and clip the other end to the frame, as shown in Fig. 6-C.
- **6-3.** Place a 18mm Plastic Spacer over the Hex Bolt as shown in Fig. 6-D.
- **6-4.** Screw the black plastic knob back into place to secure the rail end and Belt Tensioner Clamp as shown in Fig. 6-E.
- **6-5.** Repeat this process for the Belt Clamp with the belt on the other side of the frame, as shown in Fig. 6-F. Make sure that the belt teeth are facing down.

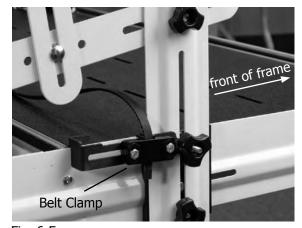


Fig. 6-F

Step 7: Carriage to Frame Assembly

Parts Needed:

1- Bottom Carriage/ Motor Plate Assembly

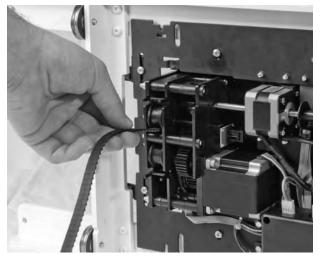


Fig. 7-A

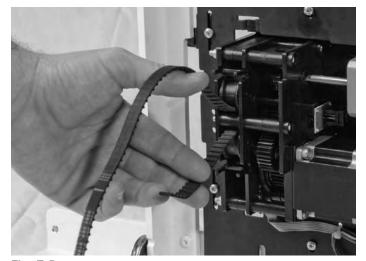


Fig. 7-B

Note: For the following steps refer to Fig. 7-C for direction of belt teeth when installing.

- **7-1.** Stand your bottom carriage on its side with the long belt sitting on the table.
- **7-2.** Feed the end of your belt into the gearbox in the carriage , as shown in Fig. 7-A.
- **7-3.** Push the belt back down and keep feeding the it through until you can see it come out just below where it entered, as shown in Fig. 7-B.
- **7-4.** Pull about half of the belt through the slot, and gently set your carriage down onto the frame, making sure the wheels line up on the track.

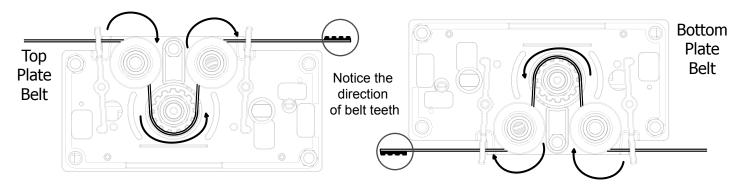


Fig. 7-C



Fig. 7-D

- **7-5.** Next, install the loose end of the belt and feed it through the Belt Tensioner Housing, as show in Fig. 7-D.
- **7-6.** Now, move to one end of the frame and get eye level with the under-side of the carriage, as it sits on the tracks. Confirm that your Mount Clamps line up with belt in the carriage by pushing your carriage from one side of the frame to the other to verify the alignment. If necessary, you can adjust your Mount Clamps at the Frame Ends by sliding them back or forth as shown in Fig. 7-E and 7-F.
- **7-7.** To get perfect alignment, it may be necessary to measure the distance from the belt to the front track. Measure this distance on both sides of the frame to make sure that they are equal. With the belt properly aligned, tighten belt clamps down completely on both ends of the frame.



Fig. 7-E

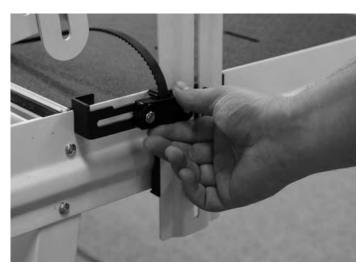
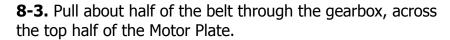


Fig. 7-F

Step 8: Sewing Machine to Bottom Carriage Assembly

Parts Needed:

- 1- Bottom Carriage/Motor Plate
- 1- Short Belt
- 1- Sewing Machine
- **8-1.** Thread the belt into the gear box with the teeth facing up, until it comes out underneath the carriage. (See Fig. 8-A.)
- **8-2.** Feed the belt through, until it comes back up out of the gear box, as shown in Fig. 8-B. Use your fingers underneath the carriage to redirect the belt back up.



- **8-4.** Now carefully place the Jewel Sewing Machine onto the carriage, aligning the wheels with the carriage track.
- **8-5.** Thread the front end of the belt up through the Belt clamp and out the top, as shown in Fig. 8-C and 8-D. The belt teeth should face up (or face the sewing machine).
- **8-6.** Now tighten the Belt Clamp together using a 10mm open ended wrench, as shown in Fig. 8-E.

Note: Make sure to keep the zip ties loose enough to allow the ribbon cable to slide easily without stressing wires or damaging them.



Fig. 8-A

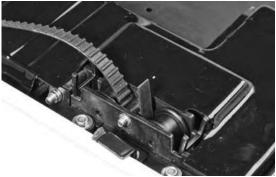


Fig. 8-B

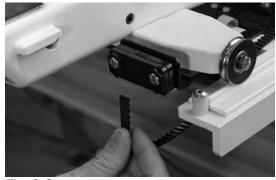


Fig. 8-C



Fig. 8-E



Fig. 8-D

- **8-7.** Thread the end of the belt up through the Belt Tension Housing and out the top, as shown in Fig. 8-F and Fig. 8-G.
- **8-8.** Use the Knobs on the tensioner to pull the belt through until relatively tight. There is no need to overtighten the belt. When it is tight enough use the knob to lock the belt in place.



Fig. 8-G



Fia. 8-F

8-9. Now, get eye level with the under-side of the carriage, as it sits on the tracks. Confirm that your Mount Clamps line up with the belt in the carriage. This is easily accomplished by pushing your carriage forward and back to verify the alignment. If necessary, you may need to loosen the hex nuts that attach your Belt Clamp /Belt Tensioner Housing to your Bracket A/B and shift them left or right. Once aligned, retighten these hex nuts.

Step 9: LCD and Cable Attachment

Parts Needed:

- 1- LCD USB Cable
- 1- Computer USB Cable
- 5- Zip Ties
- 5- Adhesive Tie Mounts
- **9-1.** Place the remaining five (5) zip tie mounts on the Jewel Sewing Machine, as shown with arrows in Fig. 19-A.
- **9-2.** Plug the LCD USB Cable into the LCD, as show in Fig. 9-B and 9-C.

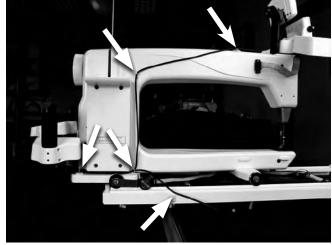


Fig. 9-A



Fig. 9-B



Fig. 9-C

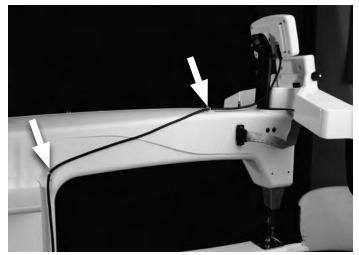


Fig. 9-D





Fig. 9-E

Fig. 9-F



Fig. 9-G



Fig. 9-H

9-3. Thread the LCD USB Cable down the machine and attach it to the first two (2) zip tie mounts using one (1) zip tie per mount, as shown in Fig. 9-D.

NOTE: Keep the zip ties loose enough that the cord can move freely if needed.

- **9-4.** Thread the LCD USB Cable down the machine and attach it to the third zip tie mounts using one (1) zip tie, as shown in Fig. 9-E.
- **9-5.** Thread the LCD USB Cable underneath the plastic casing, as shown in Fig 9-F, but do not attach the cord to the zip tie mount yet.
- **9-6.** Thread the LCD USB Cable back underneath the plastic casing, leaving most of the slack to the back of the machine. Next, plug the LCD cord into the QuiltMotion Plate, as shown in Fig. 9-G.
- **9-7.** Gather the slack form the LCD USB Cable towards the back of the carriage but do not use the zip tie yet.
- **9-8.** While holding the LCD USB Cable move the sewing machine all the way forward, shown in Fig. 9-H and all the way back as shown in Fig. 9-I. Make sure that the cord is never pulled tight, but that it is not so loose that it drags on the table or interferes with the wheels. If you need to add or remove slack do it and then perform the same test again.



Fig. 9-I

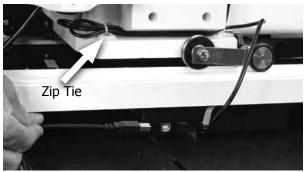


Fig. 9-K

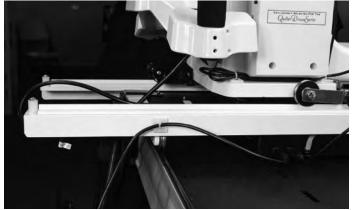


Fig. 9-L



Fig. 9-M



Fig. 9-N

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9-9. Now that you have your LCD USB Cable with the right amount of slack, zip tie it to the zip tie mount, then plug your USB cable into the QuiltMotion Plate as shown in Fig. 9-K

NOTE: Keep the zip ties loose enough that the cord can move freely if needed.

9-10. Zip tie the Computer USB cable to the last zip tie mount, but leave the zip tie loose and move the sewing machine all the way forward and all the way back. Make sure that the USB Cable does not drag on the table or interfere with the wheels, as shown in Fig. 9-L.

- **9-11.** There is a ribbon cable that comes with your Jewel sewing machine that has three end plugs. Plug one end of the ribbon cable into the side encoder, as show in Fig. 9-M.
- **9-12.** Thread the ribbon cable underneath the sewing machine and out the other end, as shown in Fig. 9-N.
- **9-13.** Plug the other end of the ribbon cable into the machine, as shown in Fig. 9-O.



Fig. 9-0



Fig. 9-P



9-14. Plug the third end of the ribbon cable into the box on the Power Strip Bracket located under the rear of the carriage, as shown in Fig. 9-P.

9-15. Replace the cover to the Cable Box on the Power Strip Bracket as show in Fig. 9-Q.



Installation Guide

For the



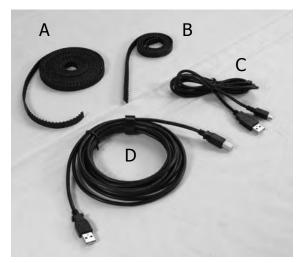
On the Pinnacle frame



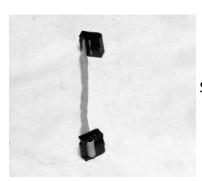
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Parts Included: List A



- A- Long Belt-Bottom Carriage (Pre-installed) (1)
- B- Short Belt-Sewing Machine (1)
- C- LCD USB Cable (1)
- D- Computer USB Cable (1)



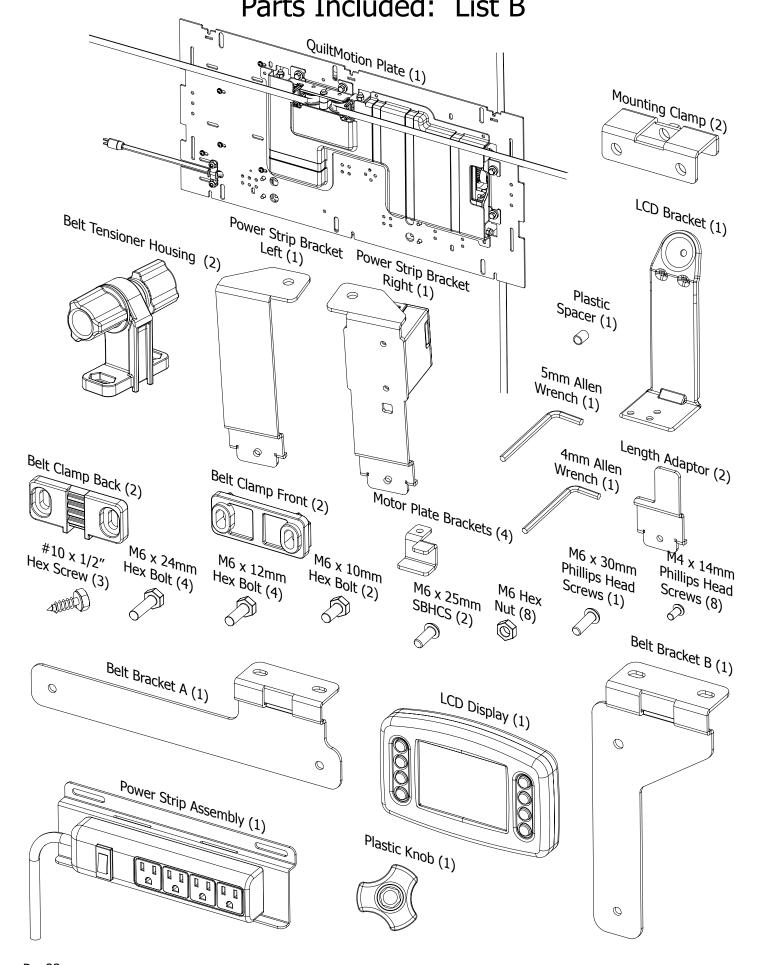
Short Ribbon Cable (1)



Zip Ties (10)

Zip Tie Mounts (7)

Parts Included: List B



Additional Tools Needed:

Phillips Screw Driver Adjustable Wrench Level (to ensure the frame is level)

Step 1: QuiltMotion Plate Installation

Parts Needed:

- 1- QuiltMotion Plate
- 4- Motor Plate Brackets
- 2- Power Strip Brackets
- 2- Length Adaptors
- 1- Power Strip
- 7- M4 x 14mm Phillips Head Screw
- 2- M6 x 10mm Hex Bolt
- 1- Short Ribbon Cable

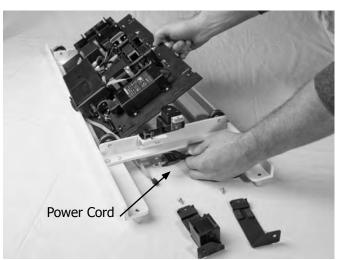


Fig. 1-B

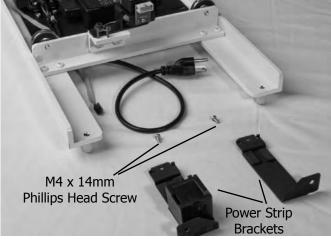


Fig. 1-C

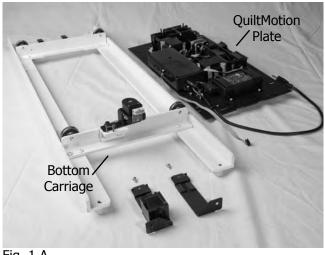


Fig. 1-A

- **1-1.** Turn your bottom carriage upside down and make sure the back of the carriage (side with the encoder) is facing towards you, as shown in Fig. 1-A.
- **1-2.** Place your QuiltMotion Plate inside your bottom carriage, noting the direction shown in Fig. 1-B. Make sure the power cord goes underneath the upside down bottom carriage.

Note: You will need to angle the QuiltMotion Plate into the bottom carriage and make sure the power cord and cables go underneath.

1-3. Next, you will install your two (2) Power Strip Brackets (left and right), using two (2) M4 x 14mm Phillips Head Screws (see Fig. 1-C).

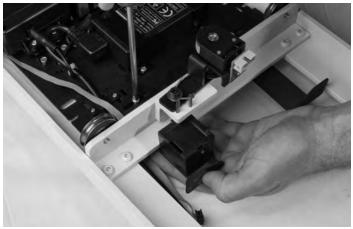


Fig. 1-D

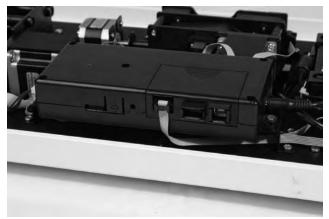


Fig. 1-E

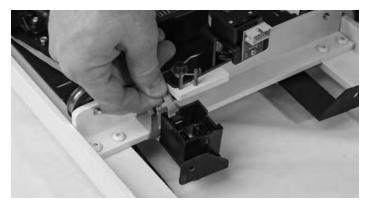


Fig. 1-F



Fig. 1-G Pa. 24

- **1-4.** Attach the two (2) Power Strip Brackets to the back of the QuiltMotion Plate by lining up these brackets under the two slots of the motor plate. Thread the two (2) M4 x 14mm Screws down through the slots, and into the brackets as shown in Fig. 1-D. **NOTE:** Before tightening completely, be sure the plate is properly aligned with the carriage.
- **1-5.** There is a ribbon cable already installed with one end plugged into the QuiltMotion plate as shown in Fig. 1-E. Remove the cover of the Power Strip Bracket on the left and plug the other end of this cable into the Power Strip Bracket as shown in Fig. 1-F.
- **1-6.** Take the short ribbon cable that came in the QuiltMotion package, plug one end of this cable into encoder lever and the other end into the Power Strip Bracket as shown in Fig. 1-G. Do not replace the lid of the cable box in the Power Strip Bracket yet, leave it off for now.
- **1-7.** Next, on the opposite end of the carriage install the two (2) Length Adaptors using two (2) M4 x 14mm Screws, as shown in Fig. 1-H.
- **1-8.** Attach the two (2) Length Adaptors to the QuiltMotion Plate in the same manner as the Power Strip Brackets in the previous step, by threading the two (2) M4 x 14mm Screws through the slots of the QuiltMotion Plate and Length Adaptors.

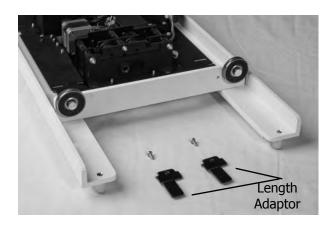


Fig. 1-H

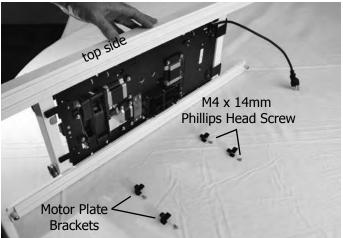


Fig. 1-I

1-8. Turn your carriage onto its side and attach the four (4) Motor Plate Brackets onto the QuiltMotion plate using the four (4) M4 x 14mm Phillips Head Screws. Insert the M4 x 14mm Phillips Head Screws from the underneath side of the carriage, as shown in Fig. 1-I, and 1-J.



Fig. 1-J

1-9. Next, you will install the Power Strip to the Power Strip Bracket on your carriage as shown in Fig. 1-K and 1-L. Turn your carriage upside down again and return to the side of your carriage with the Power Strip Brackets. Thread two (2) M6 x 10mm Hex Bolts through the slots of the Power Strip and into the threaded holes of the Power Strip Brackets. Tighten these completely.

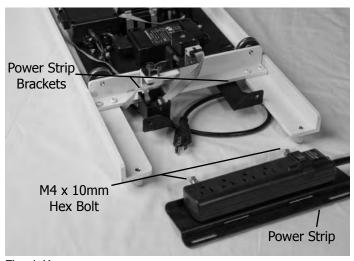


Fig. 1-K

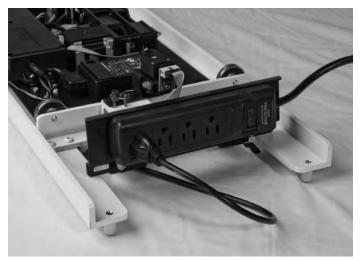


Fig. 1-L

Step 2: Belt Bracket Assembly

Parts Needed:

- 1- Belt Bracket A
- 1- Belt Bracket B
- 1- Belt Clamp Front
- 1- Belt Clamp Back
- 1- Belt Tensioner Housing
- 2- M6 x 12mm Hex Bolt
- 2- M6 x 24mm Hex Bolt
- 4- M6 Hex Nut



Fig. 2-B

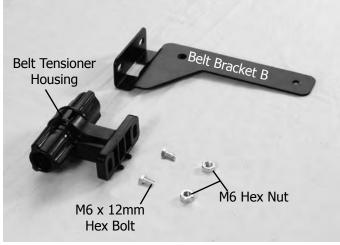


Fig. 2-C

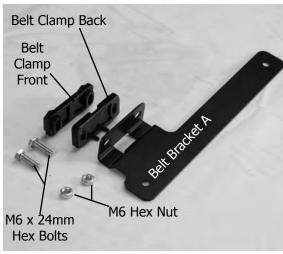


Fig. 2-A

2-1. Attach one (1) Belt Clamp Front and one (1) Belt Clamp Back to one (1) Belt Bracket A using two (2) M6 x 24mm Hex Bolts and two (2) M6 Hex Nuts, as shown in Fig. 2-A. Thread the bolts into the nuts only until they grab the first thread, so that the front and back clamps remain loose, as shown in Fig. 2-B.

2-2. Now you will assemble one (1) Belt Tensioner Housing to Belt Bracket B. Do this by threading two (2) M6 x 12 Hex Head Bolts through the two holes in the plastic housing piece and into the Belt Bracket B. Secure these in place using two (2) M6 hex nuts and tighten completely, as shown in Fig. 2-C and 2-D.



Fig. 2-D

Step 3: Mounting Clamp Assembly

Parts Needed:

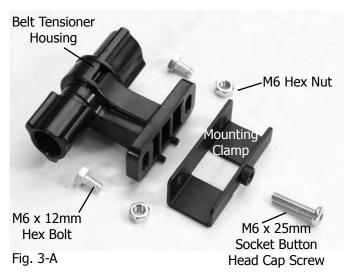
- 2- Mounting Clamp
- 1- Belt Clamp Front
- 1- Belt Clamp Back
- 1- Belt Tensioner Housing
- 1- Short Belt
- 2- M6 x 12mm Hex Bolt
- 2- M6 x 24mm Hex Bolt
- 2- M6 x 25mm Socket Button Head Cap Screw
- 4- M6 Hex Nut



Fig. 3-B

Choose one end of the belt to attach to the Belt Clamp Front and Back in the following steps.

- **3-3.** Attach one (1) Belt Clamp Front and one (1) Belt Clamp Back to one (1) Mounting Clamp using two (2) M6 x 24mm Hex Bolts and two (2) M6 Hex Nuts, as shown in Fig. 3-C. Thread the bolts into the nuts only until they grab the first thread, so that the front and back clamps remain loose.
- **3-4.** Partially screw one (1) M6 x 25mm Socket Button Head Screw into the Belt Tension Clamp, as shown in Fig. 3-D.
- **3-5.** Slide the belt between the back and front Belt Clamps, as show in Fig. 3-4 (make careful note of the direction of the belt teeth), and then tighten the hex bolts.



- **3-1.** Attach one (1) Belt Tensioner Housing to one (1) Mounting Clamp using two (2) M6 x 12mm Hex Head Bolts and two (2) M6 Hex Nuts, as shown in Fig. 3-A.
- **3-2.** Partially screw one (1) M6 x 25mm Socket Button Head Screw into the Belt Tension Clamp, as shown in Fig. 3-B.

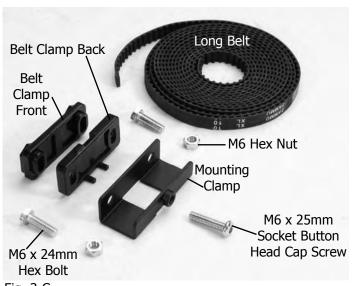


Fig. 3-C

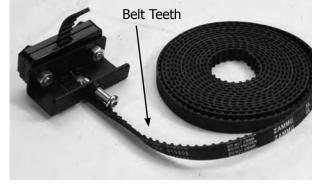


Fig. 3-D Pg. 27

Step 4: Belt Bracket to Sewing Machine

Parts Needed:

- 1- Belt Bracket A Assembly
- 1- Belt Bracket B Assembly
- 1- M6 x 30mm Phillips Head Screw
- 3- #10 x 1/2" Hex Screw
- 1- Plastic Spacer

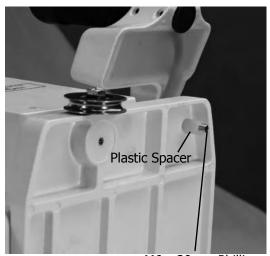


Fig. 4-B

M6 x 30mm Phillips Head Screw

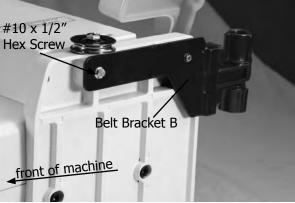


Fig. 4-C

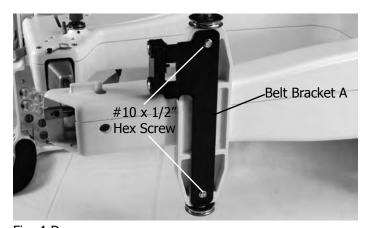


Fig. 4-D

Pg. 28

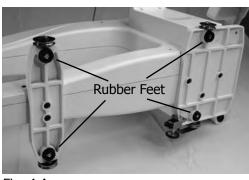


Fig. 4-A

- **4-1.** To install the Belt Brackets onto your Baby Lock Jewel machine, you will first need to carefully place the machine on its side. Looking at the machine from the front (needle side), you will lay it on its left side, exposing the rubber feet as shown in Fig. 4-A.
- **4-2.** If you have rubber feet on the bottom of your machine remove all the feet by unscrewing the flat-headed screw in the middle of each foot, as shown in Fig. 4-A.
- **4-3.** You will now install the Belt Bracket B. To do this, first install a M6 x 30mm Phillips Head Screw into the back hole (from the top of the machine), as shown in Fig. 4-B.
- **4-4.** Place the Plastic Spacer onto the screw.
- **4-5.** Place the Belt Bracket B over this bolt and over the other hole, as shown in Fig. 4-C. Use one (1) $\#10 \times 1/2$ " Hex Screw by placing it through the other hole of the Belt Bracket B, as pictured, and tighten the screw. Do not over tighten the screw.
- **4-6.** Using the included Allen wrench, tighten the socket button head cap screw (with Plastic Spacer), threading it through Belt Bracket B.
- **4-7.** Install the Belt Bracket A where the two feet used to be. Make sure the belt clamp attachment is facing toward the front of the machine, as shown (Fig. 4-D).
- **4-8.** Secure this Belt Bracket A using the remaining two (2) #10 x 1/2" Hex Screw, tightening them completely as shown in Fig. 4-D.

Step 5: LCD Installation

Parts Needed:

- 1- LCD Display
- 1- LCD Bracket
- 1- Plastic Knob

NOTE: Before you proceed, disconnect the ribbon cable that connects the handle bar to the machine.

5-1. Using a 5mm Allen Wrench you will remove the Jewel Handle Bar, by removing the two (2) screw shown in Fig. 5-A.

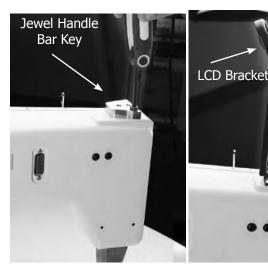
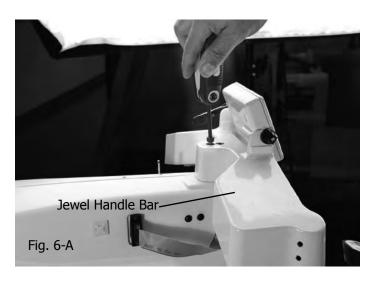






Fig. 5-D



- **5-2.** Using the same 5mm Allen Wrench you will remove the Jewel Handle Bar Key Block, by removing the screw shown in Fig. 5-B.
- **5-3.** Now, place your LCD Bracket on the machine and then replace the Jewel Handle Bar Key Block, being sure all three holes line up, as shown in Fig. 5-C, using the same screw you removed from the machine in step 3.
- **5-4.** Reattach the Jewel Handle Bar, as shown in Fig. 5-D, using the same screws you removed from the machine in step 2.
- **5-5**. Slip the bolt on the back of the LCD through the hole in your LCD Bracket and then secure it using the plastic knob, as shown in Fig. 5-E.
- **5-6.** Next, reconnect the handle bar ribbon cable you disconnected at the beginning of this step.



Fig. 5-E

Step 6: Mounting Clamp to Frame Assembly

Parts Needed:

- 1- Belt Clamp Assembly
- 1- Belt Tensioner Housing Assembly

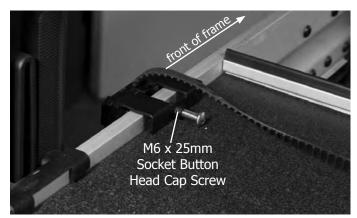


Fig. 6-B

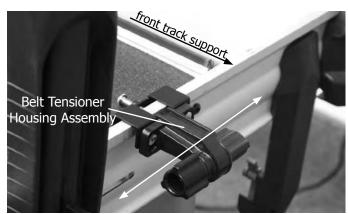


Fig. 6-C

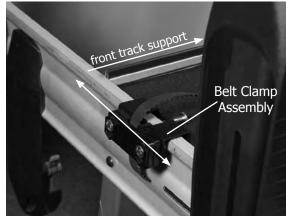


Fig. 6-A

- **6-1**. Slide the Belt Clamp Assembly (assembled in Step 3) over the Left or Right Frame Side, toward the front track support. Finger tighten the M6 x 25mm Socket Button Head Cap Screw. You will adjust this later, after your carriage is on the frame. (See Fig. 6-A and 6-B).
- **6-2.** Slide the Belt Tension Clamp with the Belt Tension Housing on it over the other Frame Side. Again, finger tighten the M6 x 25mm Socket Button Head Cap Screw. You will adjust this later, after your carriage is on the frame. (See Fig. 6-C and 6-D).

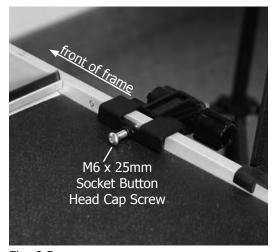


Fig. 6-D

Step 7: Carriage to Frame Assembly

Parts Needed:

1- Bottom Carriage

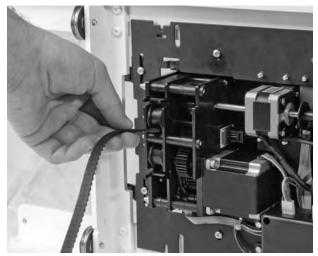


Fig. 7-A

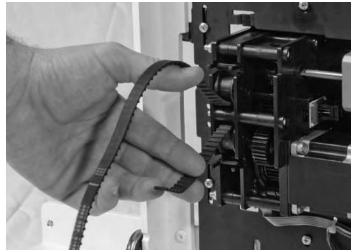


Fig. 7-B

Note: For the following steps refer to Fig. 7-C for direction of belt teeth when installing.

- **7-1.** Stand your bottom carriage on its side with the long belt sitting on the table.
- **7-2.** Feed the end of your belt into the gearbox in the carriage , as shown in Fig. 7-A.
- **7-3.** Push the belt back down and keep feeding the it through until you can see it come out just below where it entered, as shown in Fig. 7-B.
- **7-4.** Pull about half of the belt through the slot, and gently set your carriage down onto the frame, making sure the wheels line up on the track.

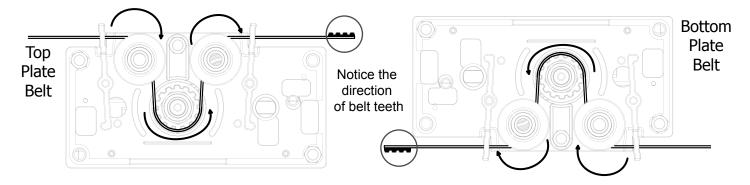


Fig. 7-C

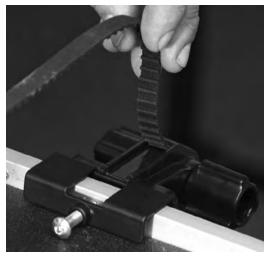


Fig. 7-D

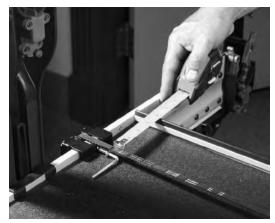


Fig. 7-E

- **7-5.** Next, install the loose end of the belt and feed it through the Belt Tensioner Housing, as show in Fig. 7-D.
- **7-7.** Now, move to one end of the frame and get eye level with the under-side of the carriage, as it sits on the tracks. Confirm that your Mount Clamps line up with belt in the carriage. This is easily accomplished by pushing your carriage to one side of the frame and then to the other to verify the alignment. If necessary, you can adjust your Mount Clamps along the Frame End.
- **7-8.** As a final check, measure how far the belt is from the right, left, and center of the frame, making sure the belt is parallel with the front track all the way down, as show in Fig. 7-E, 7-F, and 7-G.
- **7-9.** With the belt properly aligned, tighten the M6 x 25mm Socket Button Head Cap Screws using the provided 4mm Allen Wrench. Do this on both ends of the frame.

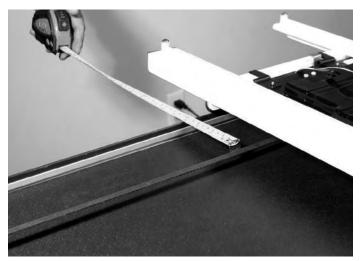


Fig. 7-F

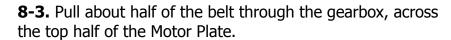


Fig. 7-G

Step 8: Sewing Machine to Bottom Carriage Assembly

Parts Needed:

- 1- Bottom Carriage/Motor Plate
- 1- Short Belt
- 1- Sewing Machine
- **8-1.** Thread the belt into the gear box with the teeth facing up, until it comes out underneath the carriage. (See Fig. 8-A.)
- **8-2.** Feed the belt through, until it comes back up out of the gear box, as shown in Fig. 8-B. Use your fingers underneath the carriage to redirect the belt back up.



- **8-4.** Now carefully place the Jewel Sewing Machine onto the carriage, aligning the wheels with the carriage track.
- **8-5.** Thread the front end of the belt up through the Belt clamp and out the top, as shown in Fig. 8-C and 8-D. Make sure to watch the direction the belt teeth should face.
- **8-6.** Now tighten the Belt Clamp together using a 10mm open ended wrench, as shown in Fig. 8-E.

Note: Make sure to keep the zip ties loose enough to allow the ribbon cable to slide easily without stressing wires or damaging them.



Fig. 8-A

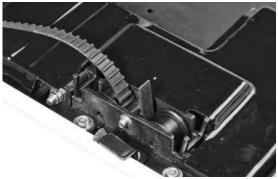


Fig. 8-B

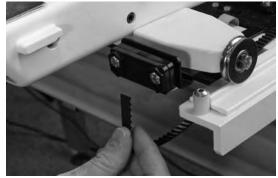


Fig. 8-C



Fig. 8-E



Fig. 8-D

- **8-7.** Thread the end of the belt up through the Belt Tension Housing and out the top, as shown in Fig. 8-F and Fig. 8-G.
- **8-8.** Use the Knobs on the tensioner to pull the belt through until relatively tight. There is no need to overtighten the belt. When it is tight enough use the knob to lock the belt in place.



Fig. 8-G



Fia. 8-F

8-9. Now, get eye level with the under-side of the carriage, as it sits on the tracks. Confirm that your Mount Clamps line up with the belt in the carriage. This is easily accomplished by pushing your carriage forward and back to verify the alignment. If necessary, you may need to loosen the hex nuts that attach your Belt Clamp /Belt Tensioner Housing to your Bracket A/B and shift them left or right. Once aligned, retighten these hex nuts.

Step 9: LCD and Cable Attachment

Parts Needed:

- 1- LCD USB Cable
- 1- Computer USB Cable
- 5- Zip Ties
- 5- Adhesive Tie Mounts
- **9-1.** Place the remaining five (5) zip tie mounts on the Jewel Sewing Machine, as shown with arrows in Fig. 19-A.
- **9-2.** Plug the LCD USB Cable into the LCD, as show in Fig. 9-B and 9-C.

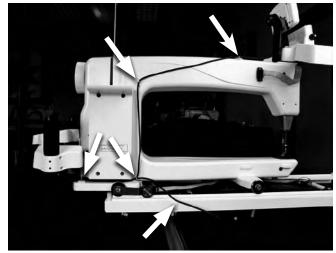


Fig. 9-A



Fig. 9-B



Fig. 9-C

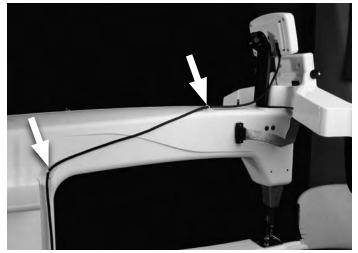


Fig. 9-D





Fig. 9-E

Fig. 9-F



Fig. 9-G



Fig. 9-H

9-3. Thread the LCD USB Cable down the machine and attach it to the first two (2) zip tie mounts using one (1) zip tie per mount, as shown in Fig. 9-D.

NOTE: Keep the zip ties loose enough that the cord can move freely if needed.

- **9-4.** Thread the LCD USB Cable down the machine and attach it to the third zip tie mounts using one (1) zip tie, as shown in Fig. 9-E.
- **9-5.** Thread the LCD USB Cable underneath the plastic casing, as shown in Fig 9-F, but do not attach the cord to the zip tie mount yet.
- **9-6.** Thread the LCD USB Cable back underneath the plastic casing, leaving most of the slack to the back of the machine. Next, plug the LCD cord into the QuiltMotion Plate, as shown in Fig. 9-G.
- **9-7.** Gather the slack form the LCD USB Cable towards the back of the carriage but do not use the zip tie yet.
- **9-8.** While holding the LCD USB Cable move the sewing machine all the way forward, shown in Fig. 9-H and all the way back as shown in Fig. 9-I. Make sure that the cord is never pulled tight, but that it is not so loose that it drags on the table or interferes with the wheels. If you need to add or remove slack do it and then perform the same test again.



Fig. 9-I



Fig. 9-K

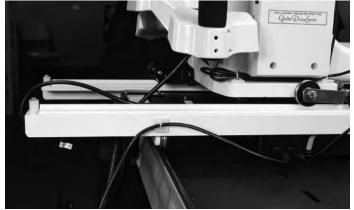


Fig. 9-L



Fig. 9-M



Fig. 9-N

- **9-9.** Now that you have your LCD USB Cable with the right amount of slack, zip tie it to the zip tie mount, then plug your USB cable into the QuiltMotion Plate as shown in Fig. 9-K
- **NOTE:** Keep the zip ties loose enough that the cord can move freely if needed.
- **9-10**. Zip tie the Computer USB cable to the last zip tie mount, but leave the zip tie loose and move the sewing machine all the way forward and all the way back. Make sure that the USB Cable does not drag on the table or interfere with the wheels, as shown in Fig. 9-L.

- **9-11.** There is a ribbon cable that comes with your Jewel sewing machine that has three end plugs. Plug one end of the ribbon cable into the side encoder, as show in Fig. 9-M.
- **9-12.** Thread the ribbon cable underneath the sewing machine and out the other end, as shown in Fig. 9-N.
- **9-13.** Plug the other end of the ribbon cable into the machine, as shown in Fig. 9-O.



Fig. 9-0

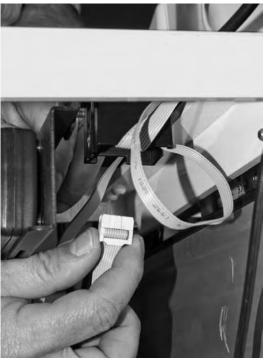


Fig. 9-P

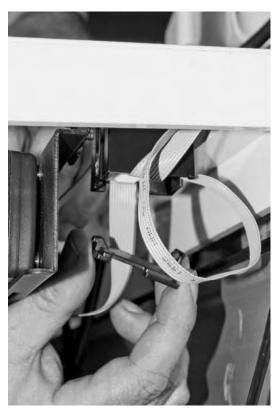


Fig. 9-Q

9-14. Plug the third end of the ribbon cable into the box on the Power Strip Bracket located under the rear of the carriage, as shown in Fig. 9-P.

9-15. Replace the cover to the Cable Box on the Power Strip Bracket as show in Fig. 9-Q.



Installation Guide

For the

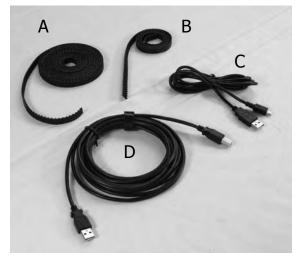
On the Pinnacle frame



QuiltMotion Jewel For Pinnacle Table of Contents

Changing Jewel slider board
Step 1: QuiltMotion Plate Installation
Step 2: Ribbon Cable Installation
Step 3: Belt Bracket Assembly
Step 4: Mounting Clamp Assembly 47
Step 5: Mounting Clamp to Sewing Machine 48
Step 6: LCD Installation
Step 7: Mounting Clamp to Frame Assembly 50
Step 8: Carriage to Frame Assembly
Step 9: Sewing Machine to Bottom Carriage Assembly 53
Step 10: LCD and Cable Attachment

Parts Included: List A



- A- Long Belt-Bottom Carriage (Pre-installed) (1)
- B- Short Belt-Sewing Machine (1)
- C- LCD USB Cable (1)
- D- Computer USB Cable (1)



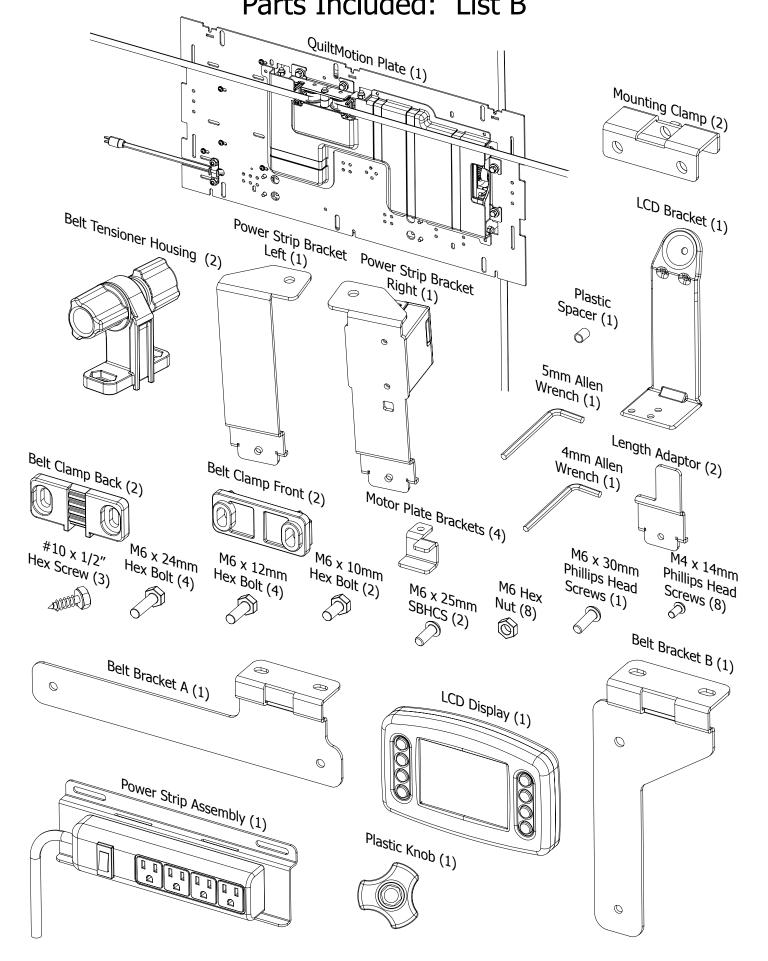
Jewel Slider Board (1)



Zip Ties (10)

Zip Tie Mounts (7)

Parts Included: List B



Changing Jewel Slider Board

Parts Needed:

- 1- QuiltMotion Plate
- 1- Crown Jewel Slider Board

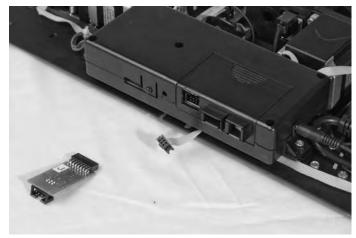


Fig. B

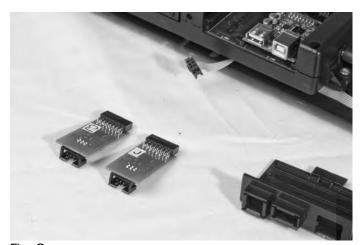


Fig. C

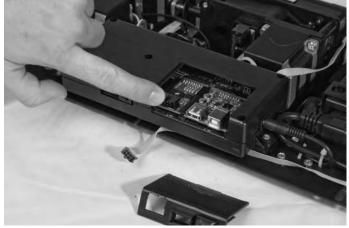


Fig. D

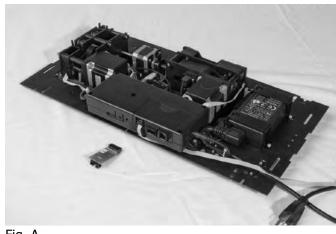


Fig. A

- **I.** Turn your QuiltMotion Plate upside down as shown in Fig. A.
- **II.** Unplug the cable coming from the control box as shown in Fig. B.
- **III.** Remove the lid of the control box and slide out the Crown Jewel Slider Board (designated with a "CJ") from the control box. Slide the Jewel Slider Board (designated with a "J") into the control box as shown in Fig. C and Fig. D.
- **IV.** Replace the cover of the Control Box and plug the cable back in as shown in Fig. E.

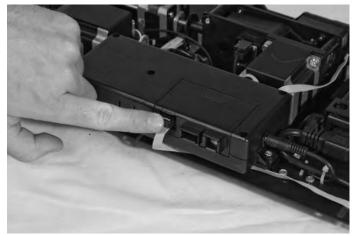


Fig. E

Additional Tools Needed:

Phillips Screw Driver Adjustable Wrench Level (to ensure the frame is level)

Step 1: QuiltMotion Plate Installation

Parts Needed:

- 1- QuiltMotion Motor Plate
- 4- Motor Plate Brackets
- 2- Power Strip Brackets
- 2- Length Adaptors
- 1- Power Strip
- 8- M4 x 14mm Phillips Head Screw
- 2- M6 x 10mm Hex Bolt

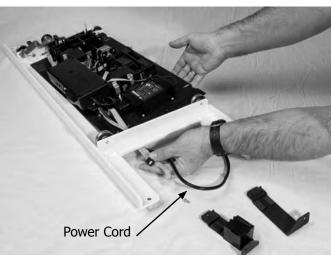


Fig. 1-B

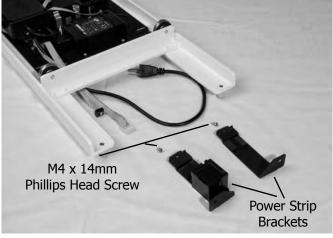


Fig. 1-C

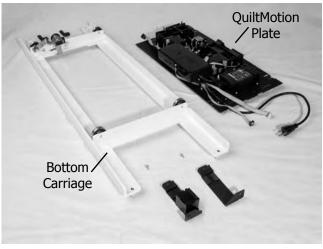


Fig. 1-A

1-1. Turn your bottom carriage upside down and make sure the front of the carriage (side with the encoder) is away from you, as shown in Fig. 1-A.

1-2. Place your QuiltMotion Plate inside your bottom carriage, noting the direction shown in Fig. 1-B. Make sure the power cord goes underneath the upside down bottom carriage.

Note: You will need to angle the QuiltMotion Plate into the bottom carriage and make sure the power cord and cables go underneath.

1-3. Next, you will install your two (2) Power Strip Brackets (left and right), using two (2) M4 x 14mm Phillips Head Screws (see Fig. 1-C).



Fig. 1-D

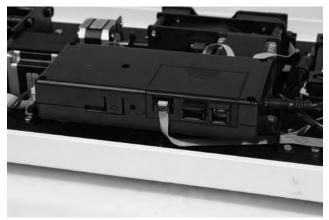


Fig. 1-E

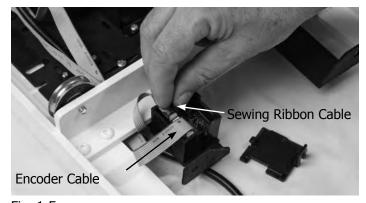


Fig. 1-F

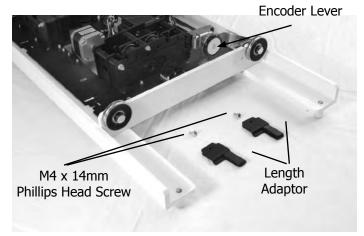


Fig. 1-G

- **1-4.** Attach the two (2) Power Strip Brackets to the back of the QuiltMotion Plate by lining up these brackets under the two slots of the motor plate. Thread the two (2) M4 x 14mm Screws down through the slots, and into the brackets as shown in Fig. 1-D. **NOTE:** Before tightening completely, be sure the plate is properly aligned with the carriage.
- **1-5.** There is a ribbon cable already installed with one end plugged into the QuiltMotion plate as shown in Fig. 1-E. This is the Sewing Ribbon Cable. Remove the cover of the Power Strip Bracket on the left and plug the other end of this cable into the Adapter Box on the Power Strip Bracket as shown in Fig. 1-F.
- **1-6.** There is another ribbon cable already installed on the QuiltMotion plate. This is the Encoder Cable. Plug one end of this cable into the Adapter Box on the Power Strip Bracket also, as shown in Fig. 1-F.
- **1-7.** Next, on the opposite end of the carriage install your two (2) Length Adaptors, using two (2) M4 x 14mm Screws, as shown in Fig. 1-G. Do not replace the lid of the cable box in the Power Strip Bracket yet, leave it off for now.

Attach the two (2) Length Adaptors to the QuiltMotion Plate in the same manner as the Power Strip Brackets in the previous step, by threading the two (2) M4 x 14mm Screws down through the slots of the QuiltMotion Plate, and into the Length Adaptors, as shown in Fig. 1-H.

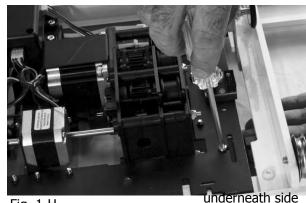


Fig. 1-H

underneaut side

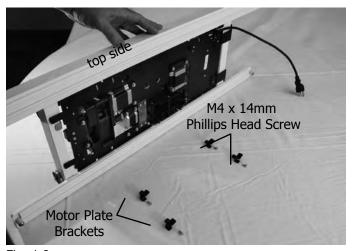


Fig. 1-J

1-8. Turn your carriage onto its side and attach the four (4) Motor Plate Brackets onto the QuiltMotion plate using the four (4) M4 x 14mm Phillips Head Screws. Insert the M4 x 14mm Phillips Head Screws from the underneath side of the carriage, as shown in Fig. 1-J, and 1-K.



Fig. 1-K

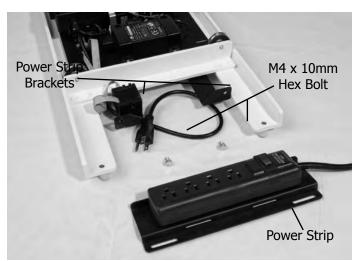


Fig. 1-L

1-9. Next, you will install the Power Strip to the Power Strip Bracket on your carriage as shown in Fig. 1-L and 1-M. Turn your carriage upside down again and return to the side of your carriage with the Power Strip Brackets. Thread two (2) M6 x 10mm Hex Bolts through the slots of the Power Strip and into the threaded holes of the Power Strip Brackets. Tighten these completely.



Fig. 1-M

Step 2: Ribbon Cable Installation

Parts Needed:

- 1- Short QuiltMotion Ribbon Cable
- 1- Encoder Ribbon Cable (included with Jewel Machine)
- 1- Cable Clip



Fig. 2-A

- **2-1.** Plug the free end of the long encoder cable (already installed on the QuiltMotion plate and used in the last step) into the encoder lever of the carriage as shown in Fig. 2-A.
- **2-2.** Place the Cable Clip on the end of the cable plug as shown in Fig. 2-B. When in place it will look like Fig. 2-C.



Fig. 2-B



Fig. 2-C

Step 3: Belt Bracket Assembly

Parts Needed:

- 1- Belt Bracket A
- 1- Belt Bracket B
- 1- Belt Clamp Front
- 1- Belt Clamp Back
- 1- Belt Tensioner Housing
- 2- M6 x 12mm Hex Bolt
- 2- M6 x 24mm Hex Bolt
- 4- M6 Hex Nut



Fig. 3-B

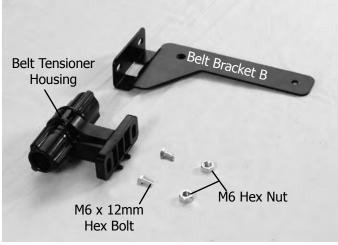


Fig. 3-C

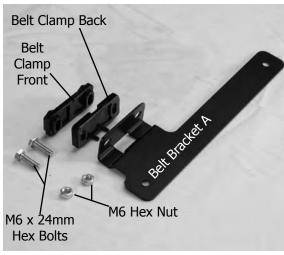


Fig. 3-A

3-1. Attach one (1) Belt Clamp Front and one (1) Belt Clamp Back to one (1) Belt Bracket A using two (2) M6 x 24mm Hex Bolts and two (2) M6 Hex Nuts, as shown in Fig. 3-A. Thread the bolts into the nuts only until they grab the first thread, so that the front and back clamps remain loose, as shown in Fig. 3-B.

3-2. Now you will assemble one (1) Belt Tensioner Housing to Belt Bracket B. Do this by threading two (2) M6 x 12 Hex Head Bolts through the two holes in the plastic housing piece and into the Belt Bracket B. Secure these in place using two (2) M6 hex nuts and tighten completely, as shown in Fig. 3-C and 3-D.



Fig. 3-D

Step 4: Mounting Clamp Assembly

Parts Needed:

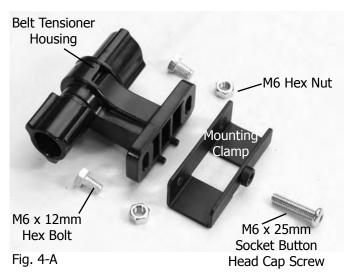
- 2- Mounting Clamp
- 1- Belt Clamp Front
- 1- Belt Clamp Back
- 1- Belt Tensioner Housing
- 1- Short Belt
- 2- M6 x 12mm Hex Bolt
- 2- M6 x 24mm Hex Bolt
- 2- M6 x 25mm Socket Button Head Cap Screw
- 4- M6 Hex Nut



Fig. 4-B

Choose one end of the belt to attach to the Belt Clamp Front and Back in the following steps.

- **4-3.** Attach one (1) Belt Clamp Front and one (1) Belt Clamp Back to one (1) Mounting Clamp using two (2) M6 x 24mm Hex Bolts and two (2) M6 Hex Nuts, as shown in Fig. 4-C. Thread the bolts into the nuts only until they grab the first thread, so that the front and back clamps remain loose.
- **4-4.** Partially screw one (1) M6 x 25mm Socket Button Head Screw into the Belt Tension Clamp, as shown in Fig. 4-D.
- **4-5.** Slide the belt between the back and front Belt Clamps, as show in Fig. 4-D (make careful note of the direction of the belt teeth), and then tighten the hex bolts.



- **4-1.** Attach one (1) Belt Tensioner Housing to one (1) Mounting Clamp using two (2) M6 x 12mm Hex Head Bolts and two (2) M6 Hex Nuts, as shown in Fig. 4-A.
- **4-2.** Partially screw one (1) M6 x 25mm Socket Button Head Screw into the Belt Tension Clamp, as shown in Fig. 4-B.

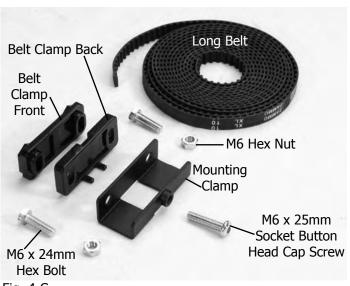


Fig. 4-C

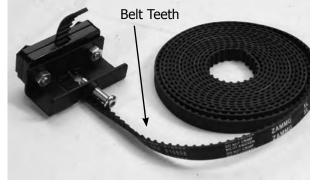


Fig. 4-D Pg. 47

Step 5: Belt Bracket to Sewing Machine

Parts Needed:

- 1- Belt Bracket A Assembly
- 1- Belt Bracket B Assembly
- 1- M6 x 30mm Phillips Head Screw
- 3- #10 x 1/2" Hex Screw
- 1- Plastic Spacer



Fig. 5-B

M6 x 30mm Phillips Head Screw

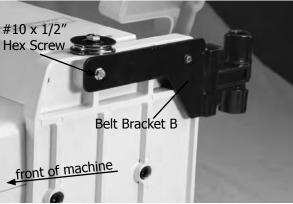


Fig. 5-C

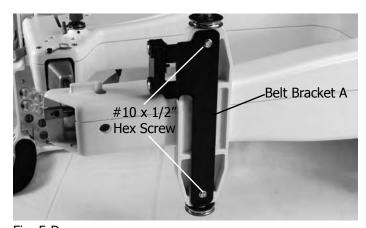


Fig. 5-D

Pg. 48

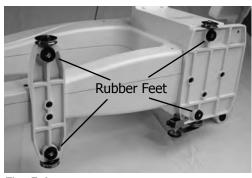


Fig. 5-A

- **5-1.** To install the Belt Brackets onto your Baby Lock Jewel machine, you will first need to carefully place the machine on its side. Looking at the machine from the front (needle side), you will lay it on its left side, exposing the rubber feet as shown in Fig. 5-A.
- **5-2.** If you have rubber feet on the bottom of your machine remove all the feet by unscrewing the flat-headed screw in the middle of each foot, as shown in Fig. 5-A.
- **5-3.** You will now install the Belt Bracket B. To do this, first install a M6 x 30mm Phillips Head Screw into the back hole (from the top of the machine), as shown in Fig. 5-B.
- **5-4.** Place the Plastic Spacer onto the screw.
- **5-5.** Place the Belt Bracket B over this bolt and over the other hole, as shown in Fig. 5-C. Use one (1) $\#10 \times 1/2$ " Hex Screw by placing it through the other hole of the Belt Bracket B, as pictured, and tighten the screw. Do not over tighten the screw.
- **5-6.** Using the included Allen wrench, tighten the socket button head cap screw (with Plastic Spacer), threading it through Belt Bracket B.
- **5-7.** Install the Belt Bracket A where the two feet used to be. Make sure the belt clamp attachment is facing toward the front of the machine, as shown (Fig. 5-D).
- **5-8.** Secure this Belt Bracket A using the remaining two (2) $\#10 \times 1/2$ " Hex Screw, tightening them completely as shown in Fig. 5-D.

Step 6: LCD Installation

Parts Needed:

- 1- LCD Display
- 1- LCD Bracket
- 1- Plastic Knob

NOTE: Before you proceed, disconnect the ribbon cable that connects the handle bar to the machine.

6-1. Using a 5mm Allen Wrench you will remove the Jewel Handle Bar, by removing the two (2) screw shown in Fig. 6-A.

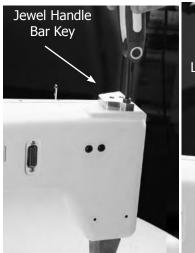




Fig. 6-B

Fig. 6-C



Fig. 6-D



- **6-2.** Using the same 5mm Allen Wrench you will remove the Jewel Handle Bar Key Block, by removing the screw shown in Fig. 6-B.
- **6-3.** Now, place your LCD Bracket on the machine and then replace the Jewel Handle Bar Key Block, being sure all three holes line up, as shown in Fig. 6-C, using the same screw you removed from the machine in step 3.
- **6-4.** Reattach the Jewel Handle Bar, as shown in Fig. 6-D, using the same screws you removed from the machine in step 2.
- **6-5**. Slip the bolt on the back of the LCD through the hole in your LCD Bracket and then secure it using the plastic knob, as shown in Fig. 6-E.
- **6-6.** Next, reconnect the handle bar ribbon cable you disconnected at the beginning of this step.



Fig. 6-E

Step 7: Mounting Clamp to Frame Assembly

Parts Needed:

- 1- Belt Clamp Assembly
- 1- Belt Tensioner Housing Assembly

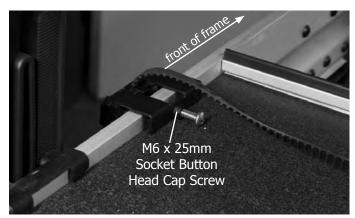


Fig. 7-B

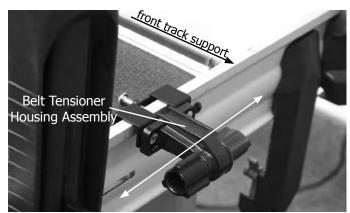


Fig. 7-C

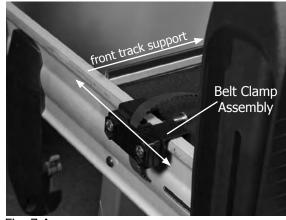


Fig. 7-A

- **7-1**. Slide the Belt Clamp Assembly (assembled in Step 4) over the Left or Right Frame Side, toward the front track support. Finger tighten the M6 x 25mm Socket Button Head Cap Screw. You will adjust this later, after your carriage is on the frame. (See Fig. 7-A and 7-B).
- **7-2.** Slide the Belt Tension Clamp with the Belt Tension Housing on it over the other Frame Side. Again, finger tighten the M6 x 25mm Socket Button Head Cap Screw. You will adjust this later, after your carriage is on the frame. (See Fig. 7-C and 7-D).

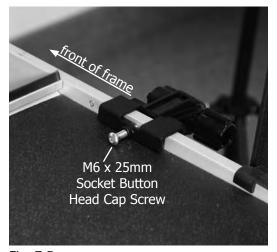


Fig. 7-D

Step 8: Carriage to Frame Assembly

Parts Needed:

- 1- Bottom Carriage/Motor Plate
- 1- Long Belt



Fig. 8-B

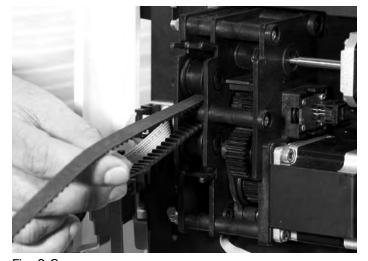


Fig. 8-C

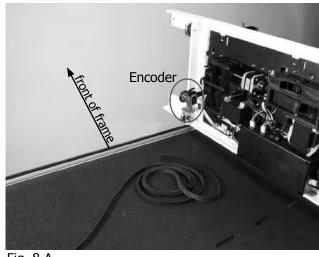


Fig. 8-A

Note: For the following steps refer to Fig. 8-D for direction of belt teeth when installing.

- **8-1.** Stand your bottom carriage on its side with the belt sitting on the table, as show in Fig. 8-A.
- **8-2.** Feed the end of your belt into the gearbox in the carriage , as shown in Fig. 8-B.
- **8-3.** Push the belt back down and keep feeding it through until you can see it come out just below where it entered, as shown in Fig. 8-C.
- **8-4.** Pull about half of the belt through the slot, and gently set your carriage down onto the frame, making sure the wheels line up on the track.

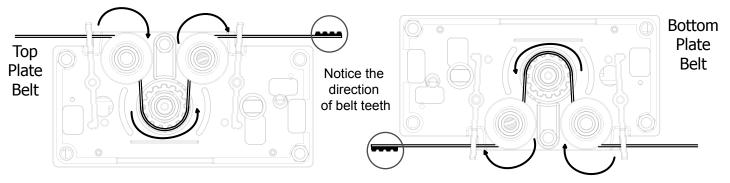


Fig. 8-D

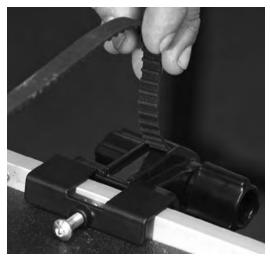


Fig. 8-E

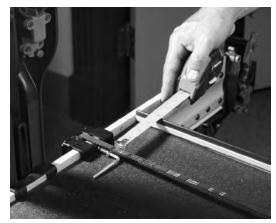


Fig. 8-F

- **8-5.** Next, install the loose end of the belt and feed it through the Belt Tensioner Housing, as show in Fig. 8-E.
- **8-7.** Now, move to one end of the frame and get eye level with the under-side of the carriage, as it sits on the tracks. Confirm that your Mount Clamps line up with belt in the carriage. This is easily accomplished by pushing your carriage to one side of the frame and then to the other to verify the alignment. If necessary, you can adjust your Mount Clamps along the Frame End.
- **8-8.** As a final check, measure how far the belt is from the right, left, and center of the frame, making sure the belt is parallel with the front track all the way down, as show in Fig. 8-F, 8-G, and 8-H.
- **8-9.** With the belt properly aligned, tighten the M6 x 25mm Socket Button Head Cap Screws using the provided 4mm Allen Wrench. Do this on both ends of the frame.

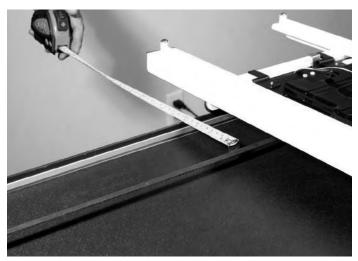


Fig. 8-G

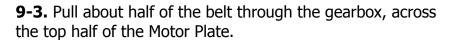


Fig. 8-H

Step 9: Sewing Machine to Bottom Carriage Assembly

Parts Needed:

- 1- Bottom Carriage/Motor Plate
- 1- Short Belt
- 1- Sewing Machine
- **9-1.** Thread the belt into the gear box with the teeth facing up, until it comes out underneath the carriage. (See Fig. 9-A.)
- **9-2.** Feed the belt through, until it comes back up out of the gear box, as shown in Fig. 9-B. Use your fingers underneath the carriage to redirect the belt back up.



- **9-4.** Now carefully place the Jewel Sewing Machine onto the carriage, aligning the wheels with the carriage track.
- **9-5.** Thread the front end of the belt up through the Belt clamp and out the top, as shown in Fig. 9-C and 9-D. Make sure to watch the direction the belt teeth should face.
- **9-6.** Now tighten the Belt Clamp together using a 10mm open ended wrench, as shown in Fig. 9-E.

Note: Make sure to keep the zip ties loose enough to allow the ribbon cable to slide easily without stressing wires or damaging them.

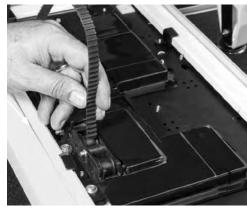


Fig. 9-A

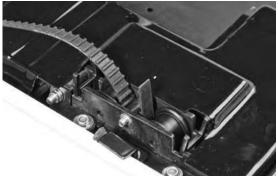


Fig. 9-B

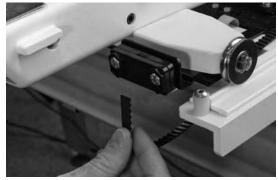


Fig. 9-C



Fig. 9-E



Fig. 9-D

- **9-7.** Thread the end of the belt up through the Belt Tension Housing and out the top, as shown in Fig. 9-F and Fig. 9-G.
- **9-8.** Use the Knobs on the tensioner to pull the belt through until relatively tight. There is no need to overtighten the belt. When it is tight enough use the knob to lock the belt in place.



Fig. 9-G



Fia. 9-F

9-9. Now, get eye level with the under-side of the carriage, as it sits on the tracks. Confirm that your Mount Clamps line up with the belt in the carriage. This is easily accomplished by pushing your carriage forward and back to verify the alignment. If necessary, you may need to loosen the hex nuts that attach your Belt Clamp /Belt Tensioner Housing to your Bracket A/B and shift them left or right. Once aligned, retighten these hex nuts.

Step 10: LCD and Cable Attachment

Parts Needed:

- 1- LCD USB Cable
- 1- Computer USB Cable
- 5- Zip Ties
- 5- Adhesive Tie Mounts
- **10-1.** Place the remaining five (5) zip tie mounts on the Jewel Sewing Machine, as shown with arrows in Fig. 10-A.
- **10-2.** Plug the LCD USB Cable into the LCD, as show in Fig. 10-B and 10-C.

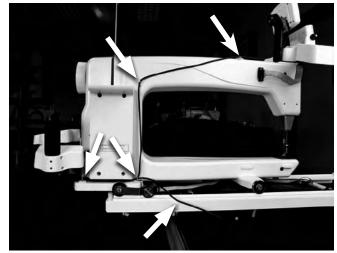


Fig. 10-A



Fig. 10-B



Fig. 10-C

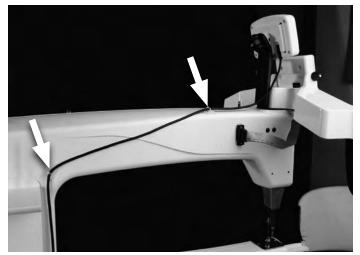


Fig. 10-D





Fig. 10-E

Fig. 10-F



Fig. 10-G



Fig. 10-H

- **10-3.** Thread the LCD USB Cable down the machine and attach it to the first two (2) zip tie mounts using one (1) zip tie per mount, as shown in Fig. 10-D.
- **NOTE:** Keep the zip ties loose enough that the cord can move freely if needed.
- **10-4.** Thread the LCD USB Cable down the machine and attach it to the third zip tie mounts using one (1) zip tie, as shown in Fig. 10-E.
- **10-5.** Thread the LCD USB Cable underneath the plastic casing, as shown in Fig 10-F, but do not attach the cord to the zip tie mount yet.
- **10-6.** Thread the LCD USB Cable back underneath the plastic casing, leaving most of the slack to the back of the machine. Next, plug the LCD cord into the QuiltMotion Plate, as shown in Fig. 10-G.
- **10-7.** Gather the slack form the LCD USB Cable towards the back of the carriage but do not use the zip tie yet.
- **10-8.** While holding the LCD USB Cable move the sewing machine all the way forward, shown in Fig. 10-H and all the way back as shown in Fig. 10-I. Make sure that the cord is never pulled tight, but that it is not so loose that it drags on the table or interferes with the wheels. If you need to add or remove slack do it and then perform the same test again.



Fig. 10-I



Fig. 10-K

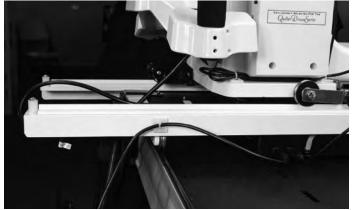


Fig. 10-L



Fig. 10-M



Fig. 10-N

10-9. Now that you have your LCD USB Cable with the right amount of slack, zip tie it to the zip tie mount, then plug your USB cable into the QuiltMotion Plate as shown in Fig. 10-K

NOTE: Keep the zip ties loose enough that the cord can move freely if needed.

10-10. Zip tie the Computer USB cable to the last zip tie mount, but leave the zip tie loose and move the sewing machine all the way forward and all the way back. Make sure that the USB Cable does not drag on the table or interfere with the wheels, as shown in Fig. 10-L.

- **10-11.** There is a ribbon cable that comes with your Jewel sewing machine that has three end plugs. Plug one end of the ribbon cable into the side encoder, as show in Fig. 10-M.
- **10-12.** Thread the ribbon cable underneath the sewing machine and out the other end, as shown in Fig. 10-N.
- **10-13.** Plug the other end of the ribbon cable into the machine, as shown in Fig. 10-O.



Fig. 10-0

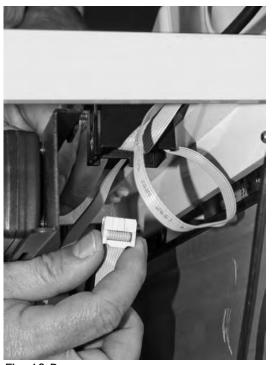


Fig. 10-P

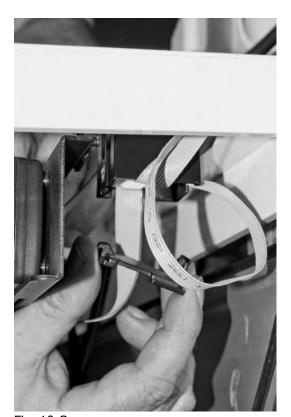


Fig. 10-Q

10-14. Plug the third end of the ribbon cable into the box on the Power Strip Bracket located under the rear of the carriage, as shown in Fig. 10-P.

10-15. Replace the cover to the Cable Box on the Power Strip Bracket as show in Fig. 10-Q.

QuiltMotion/QuiltCAD Software Installation Guide

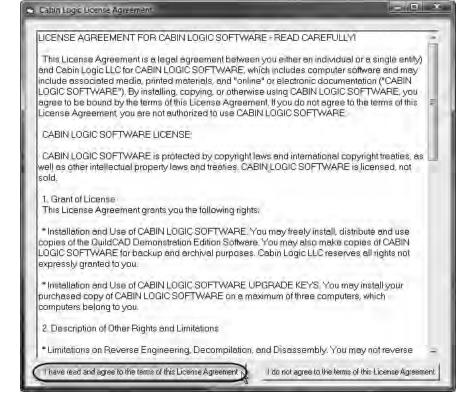
Note: These instructions were written with the process and screenshots for Windows Vista. For Windows 2000 and XP, the process is extremely similar and this guide can still be used for those other operating systems.

 First, close all running programs and then insert the Program Installation CD.
 A dialog box will appear with the Setup Wizard. Click Next.

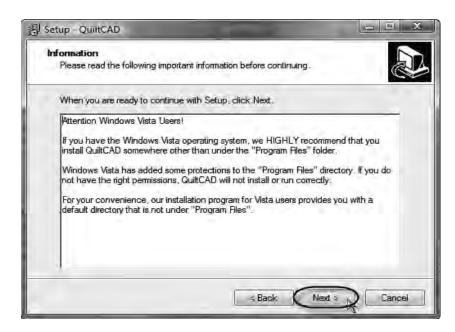
Note: If by chance this doesn't happen, double-click the CD drive icon in My Computer, and then double-click "**setup.exe**."



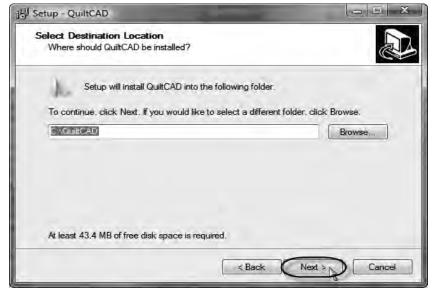
2. When the License Agreement screen comes up, please read the agreement and then check *I accept the agreement* and click *Next*.



3. Please read the Information on this screen, and click *Next*.



4. We recommend you leave the installation location "as is" for ease, and click *Next*.



5. The program installer will automatically put a shortcut in the Start menu in a folder called **QuiltCAD**. Click *Next*.



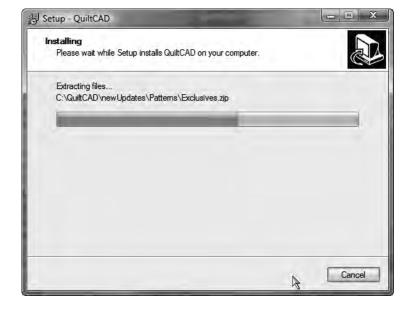
6. In the next screen, you can select additional icons to be placed. We recommend you at least put an icon on your desktop. Click *Next* when you're done.



7. This screen identifies the program location along with other icon and shortcut locations. Click *Install* after verifying the settings.



8. During the install, a progress bar will appear with an option to cancel. Don't click anything until you get the screen in step 9.



Completing the QuiltCAD Setup Wizard

Setup has finished installing QuiltCAD on your computer.

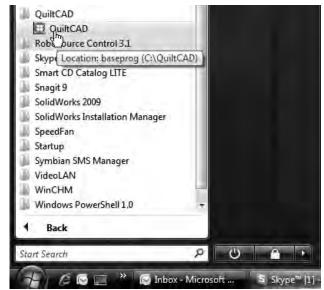
Click Finish to exit Setup.

9. Once the install is complete, this screen will appear. Click *Finish* to complete the installation.

 Launch QuiltCAD by either selecting the desktop icon (if you created one during install) or go into the Start menu in the folder you selected in step 5 (default QuiltCAD).

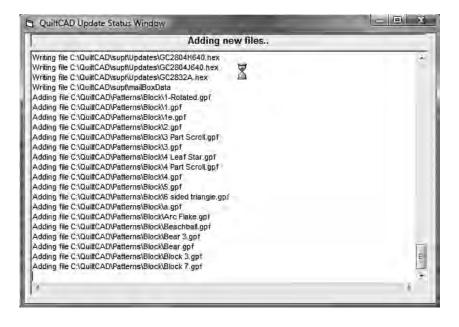


Desktop Icon



Start menu icon

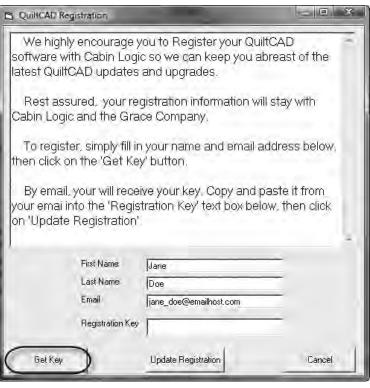
11. This window will come up after the first launch of QuiltCAD. Text will scroll as it sets up the new files. This screen will only be up for a few seconds.



 Next, you will need to register your product. Fill out your first name, last name, and your email address and click Get Key.

15. Please review your information given to make sure it is correct, and then click *Submit*. You will get a "Thank You" screen that you can read and close.

16. Within a couple minutes, you will have an email addressed from register@cabinlogic.com in your email inbox. If the email does not appear in your inbox, make sure to check your junk/spam mail folder, if applicable. Copy the key in the email by highlighting it and then pressing ctrl+c on your keyboard.

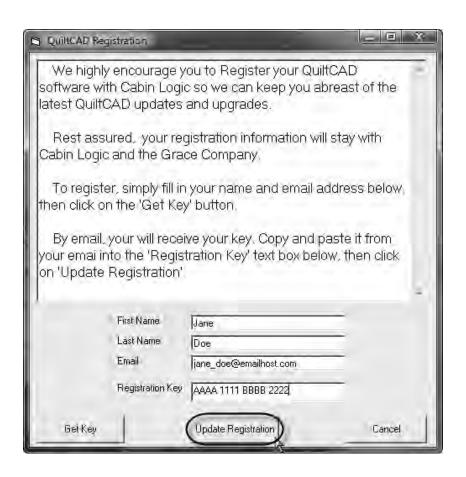




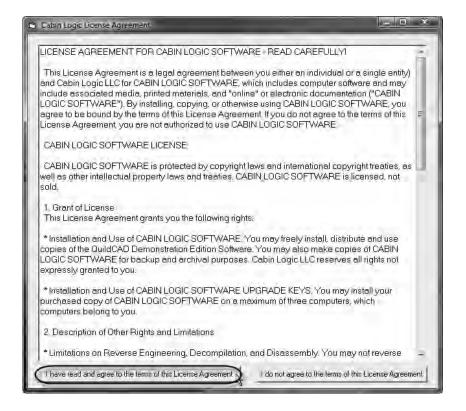
jane_doe@emailhost.com QuiltCAD Registration Jane Doe [jane_doe@emailhost.com]

FIRSTNAME::	Iane
LASTNAME::	Doe
EMAIL::	jane doe@emailhost.com
EDITION::	QuiltCAD MC
VERSION::	2.XX
DATE::	11/11/2009 9:03:08 AM
KEY::	AAAA 1111 BBBB 2222

17. Go back to the QuiltCAD
Registration screen and click in
the Registration Key field, then
paste in the key by pressing
ctrl+v on your keyboard.



18. The Cabin Logic License
Agreement will appear again.
Read and click I have read
and agree to the terms of this
License Agreement.



20. Now that the program has been registered, it will now launch to the QuiltCAD main screen.

