

# How to Attach A Non-Integrated Butler to a King Quilter Frame

Bag #

Contents

Picture

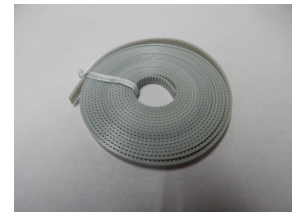
Display  
Hardware

King Quilter  
Display Bracket  
with Display Bases



X1

1- White Belt (15')



Y1

1- Black Belt (86")



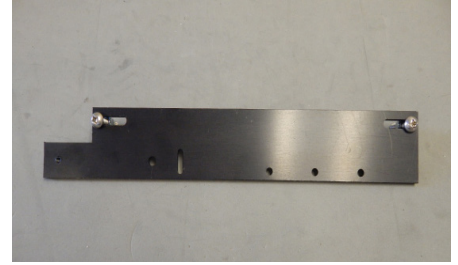
Z1

10- Zip Tie Base Anchors  
2- Screw (M5 x 12mm)  
2- Washer (M5)  
5- 10" Zip Ties  
10- 5" Zip Ties

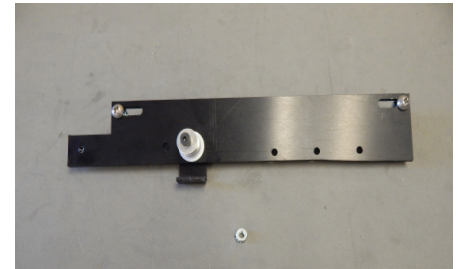


Bag #      Contents      Picture

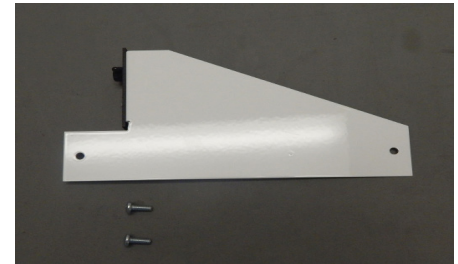
M8      1- Motor box bracket  
 2- Lock nut (1/4" -20)  
 2- Screw (1/4" -20 x 1")



I8      1- Rear idler bracket  
 1- Tensioner bracket  
 2- Lock nut (1/4" -20)  
 2- Machine screw (1/4" -20 x 1" )  
 1- Pulley assembly



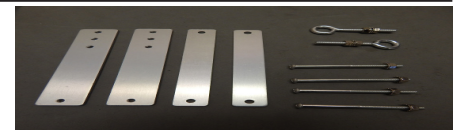
Y13      1- Carriage bracket  
 1- Pan-head screw (#10-24 x 1/4")  
 1- Thumb screw (#10-24 x 1/2")  
 2- Pan-head screw (#10-24 x 1/2")  
 1- Y-belt bracket A1 Clampless



X5      2- X-belt Brackets  
 2- Eye bolt (M5 x 40mm)  
 4- Locknut (M5)

OR

2-X-belt Brackets    4-M5 X 65 Screw  
 2-10-24 Klocks      2- Eyebolt Clamp-less Bracket  
 4- M5 Klocks        2- 10-24 x 1 Screw



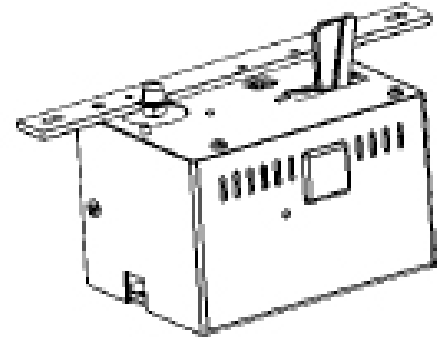
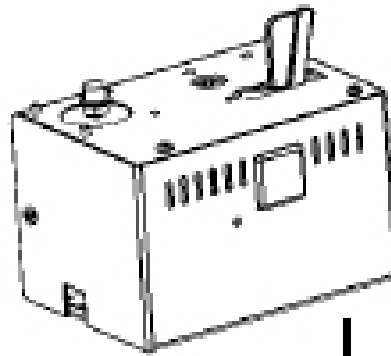
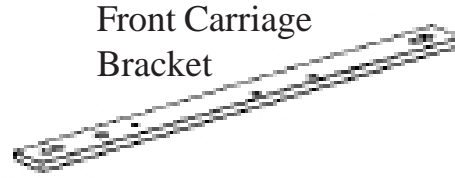
Cables    Butler Power Cable  
 Direct Connect Cable  
 King Quilter Machine Cable

*\* This cable is only available with the Ruby, imperial and Professional Butler*

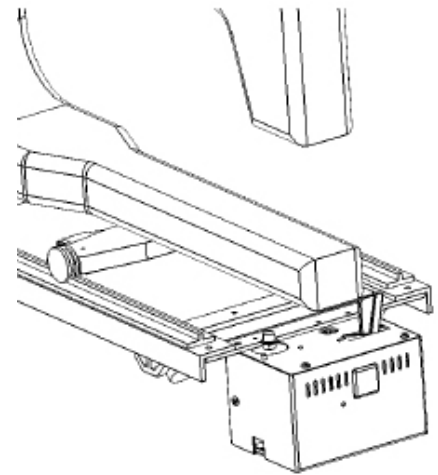
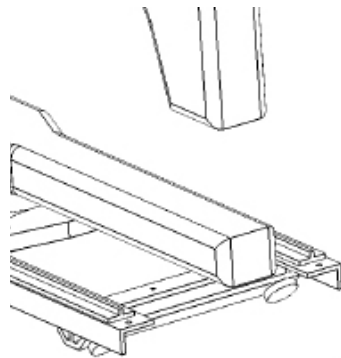


## Attach the Front Carriage Bracket (Bag M8)

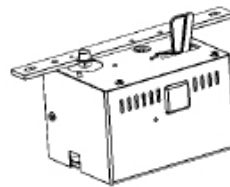
- 1 Attach the front carriage bracket to black motor box using the provided M5 x 12mm screws.



- 2 Install the motor box bracket underneath the front of the carriage. Line the holes on the bracket with the existing holes on the carriage.

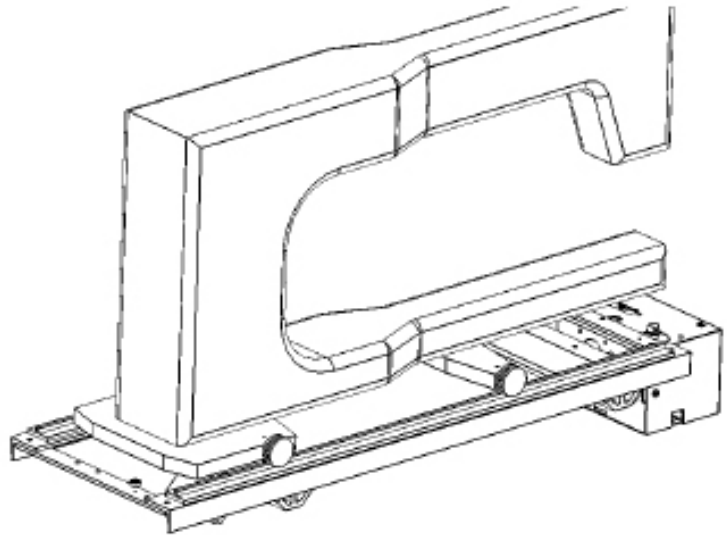
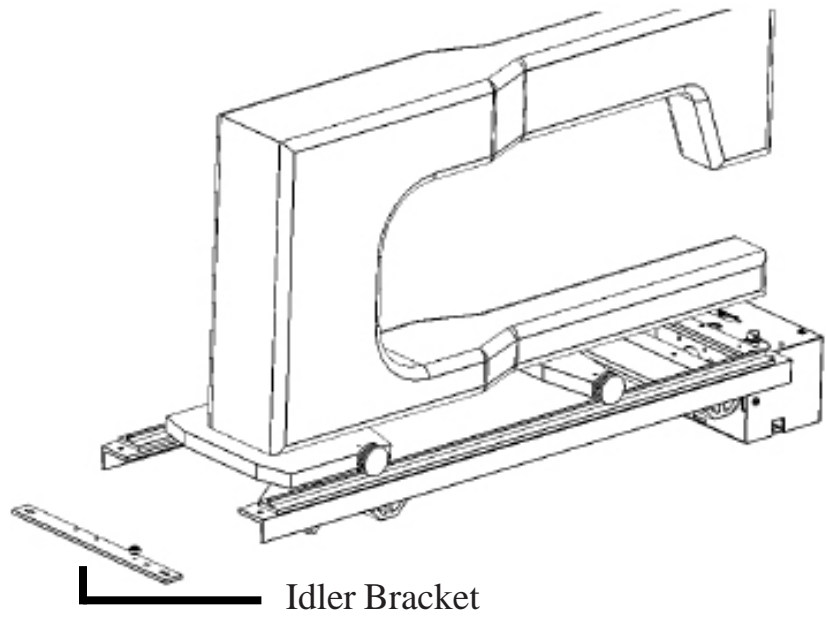


Fasten in place with the provided 1/4" -20 x 1" screws



## Attach the Rear Idler Bracket (Bag I8)

- 1 Line the idler bracket with the existing holes on the rear of the carriage and attach it using the provided 1/4" -20 x 1" screws

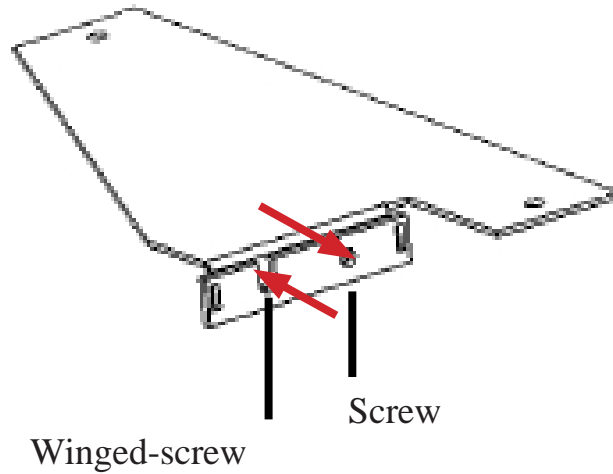
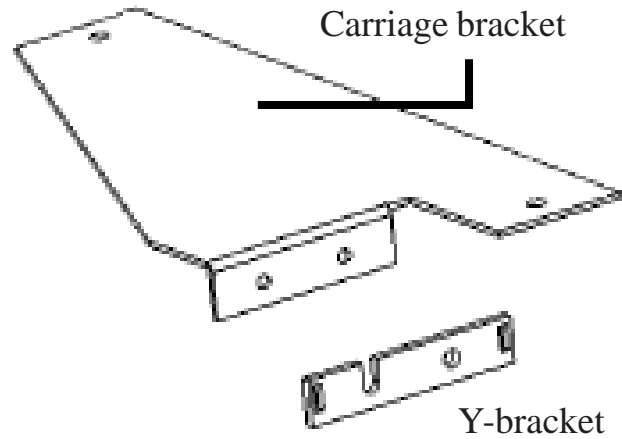


## Install Black Belt (Bag Y1 and Bag Y13)

- 1 Attach the two black belt brackets together using the provided winged screw and screw.

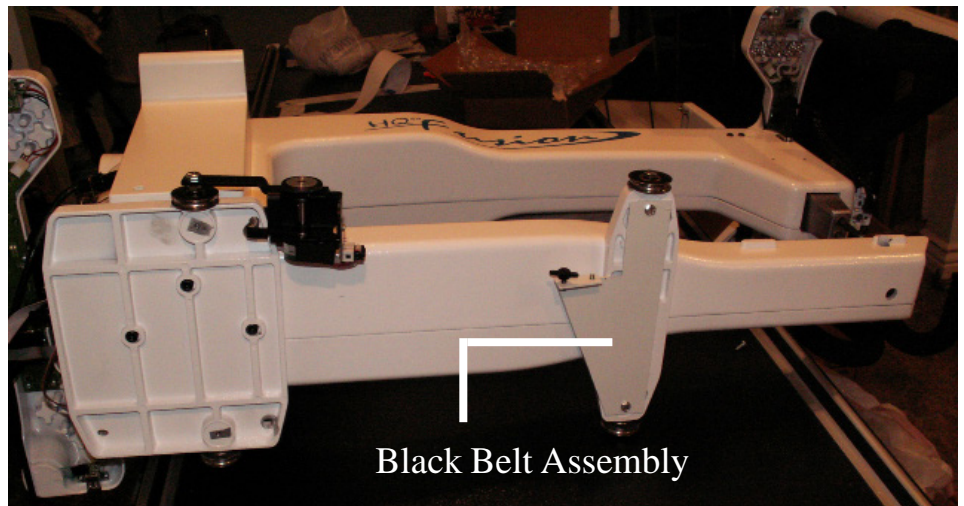
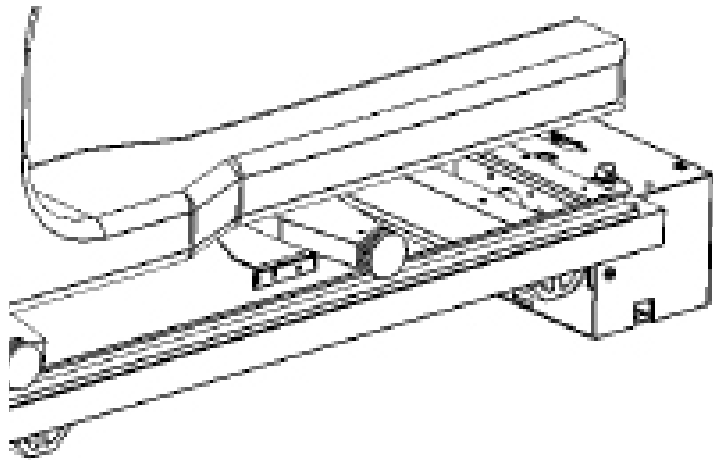
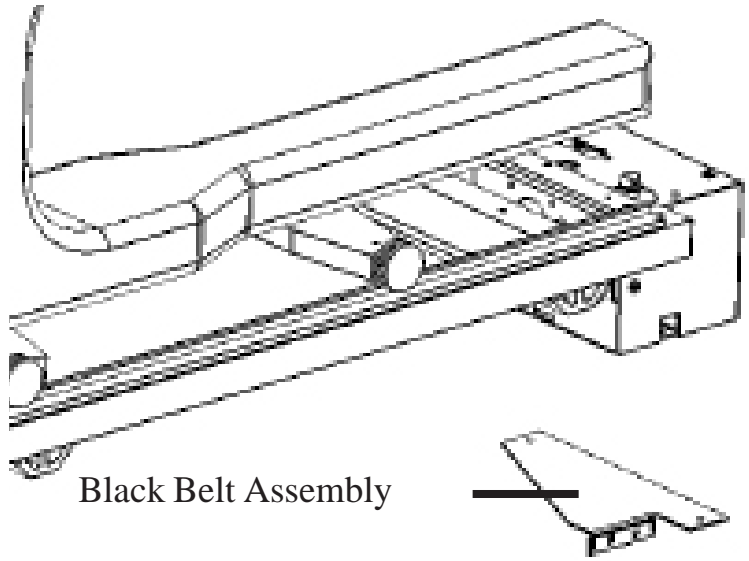
*If the bracket is pre-installed continue to step 2.*

Insert the winged-screw from the front and the normal screw from the back.



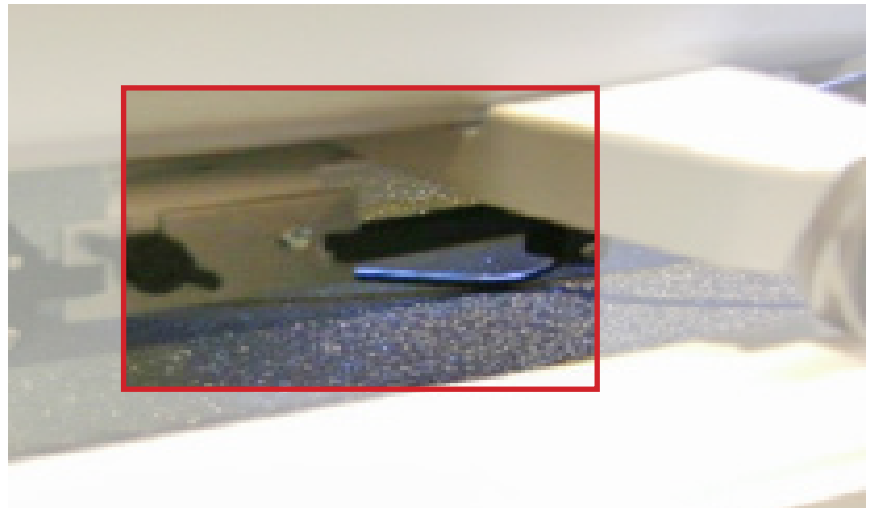
2

Install black belt assembly to the underside of the front carriage wheels.



- 3 Use the belt clamps to attach one side of the black belt to the Y-bracket. Make sure the teeth face away from the carriage.

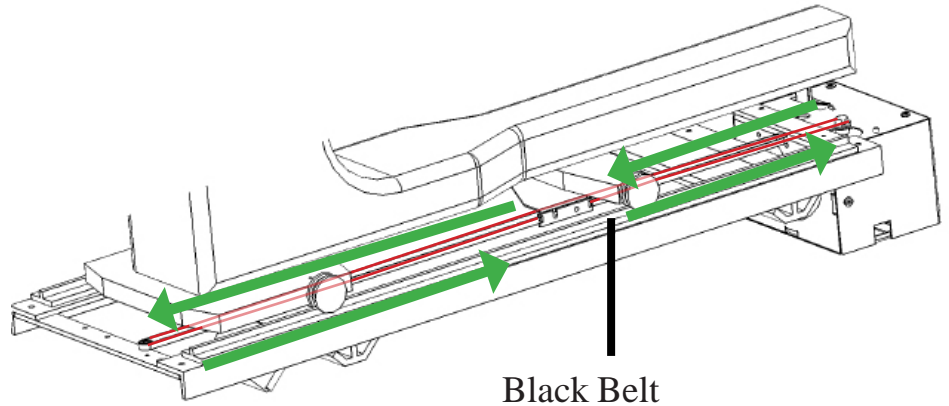
*See Appendix A for help with belt clamps.*



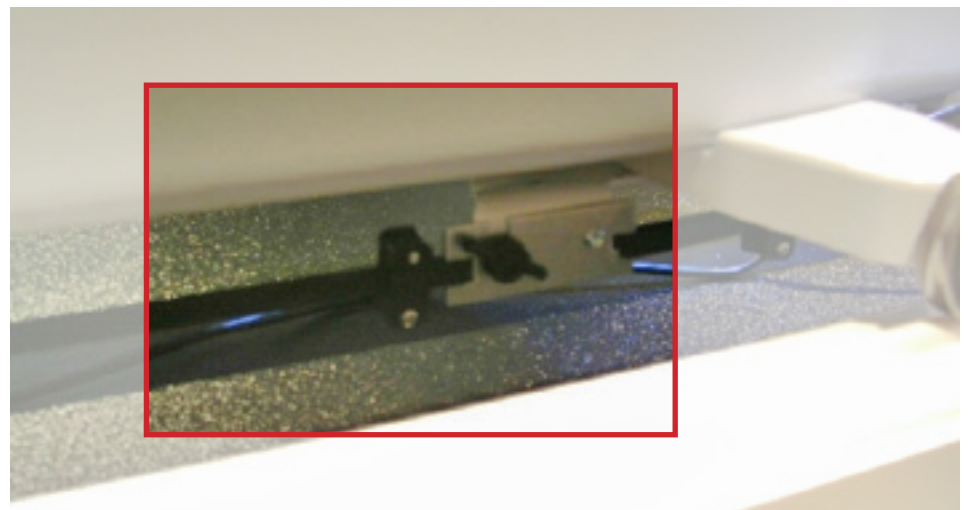
- 4 Loop the belt around the motor pulley with the teeth facing in.

The uninterrupted length of the belt will run farther from the carriage.

Then loop the belt around the rear idler pulley.



- 5 Attach the other end of the belt to the Y-bracket using another belt clamp.

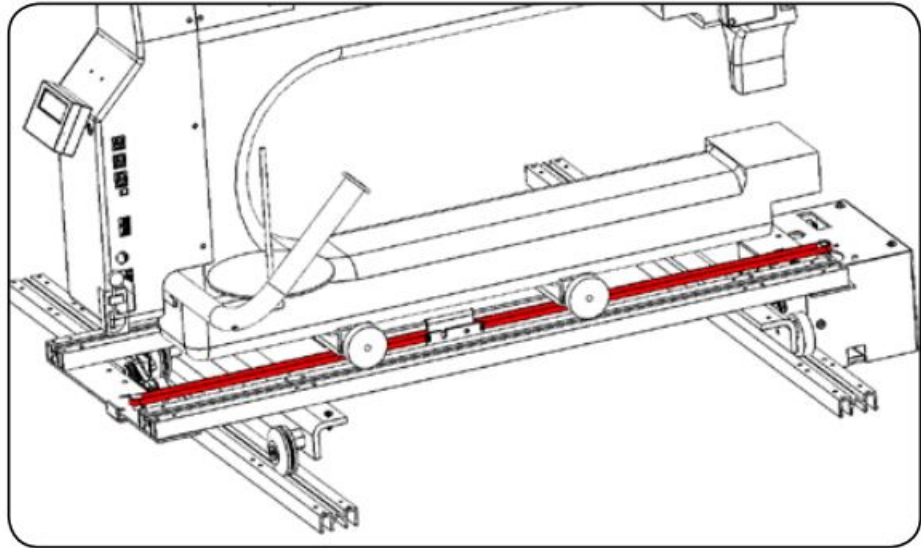




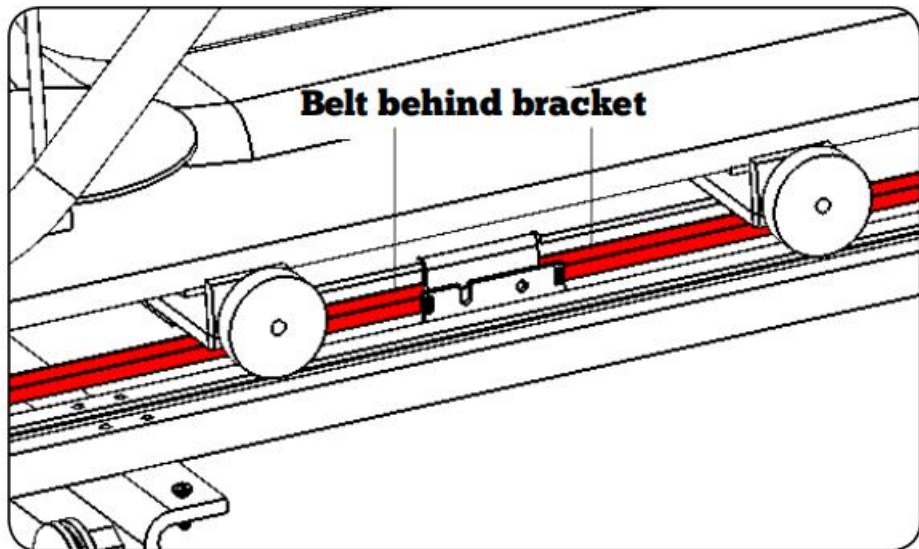
\*\*\*Please note that your machine and bracket may not look exactly like this, the main thing here is to make sure your the black belt travels BEHIND the bracket as shown in the pictures below.\*\*\*

Using the zip ties, attach one end of the black belt to the carriage bracket.

Wrap the toothed side of the black belt (highlighted at right) around both the Idle and Motor Box pulleys, then use zip ties to attach the remaining end of the belt to the carriage bracket.



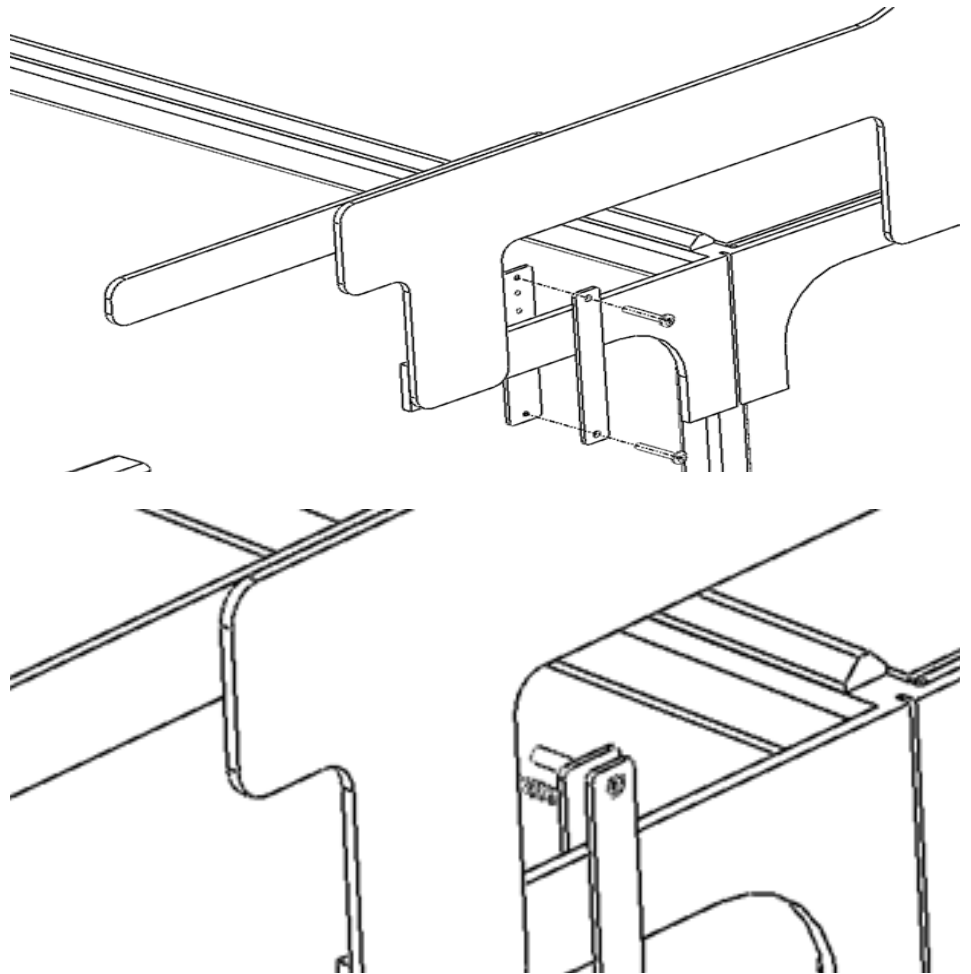
Ensure that the black belt travels **behind** the carriage bracket (shown at right).



## Install White Belt on Frame (Bag X1 and Bag X5)

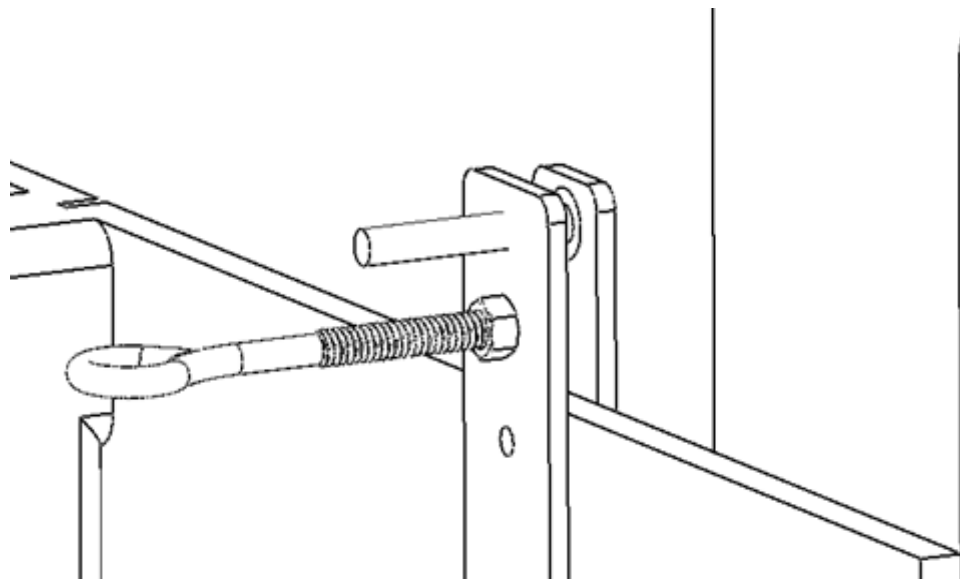
- 1 Attach the clamp brackets to the using the provided screws.

Make sure that they are inline with the pulley on the back of the motor box.



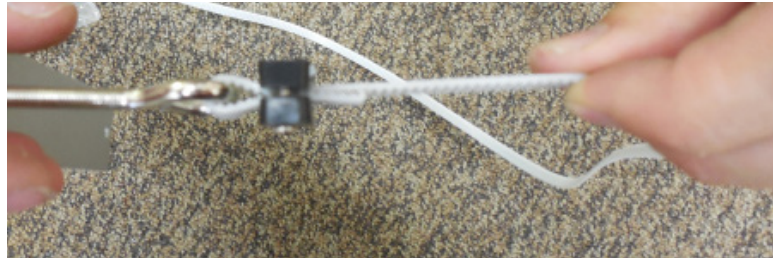
- 2 Attach the eyebolt to the inner clamp with one of the lock nuts on each side of the clamp.

Repeat for both sides.



3

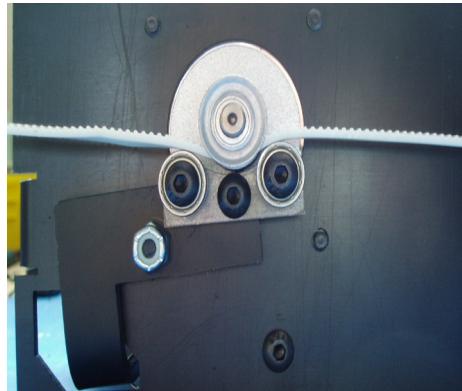
Use a belt clamp to secure the belt to each of the eyebolts.



Release the belt lock lever and run the belt as shown with the teeth facing up.



Then reengage the lock lever.

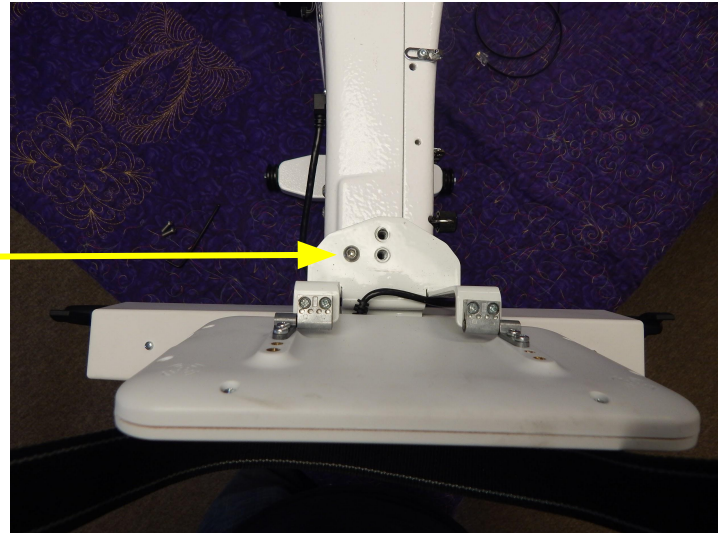


# King Quilter II Installation Instructions

## 1. Tablet Bracket

Remove the two table bracke screw as pictured.

**\*\*Note: Do not remove this screw.**



Align Butler tablet bracket as pictured and replace tablet bracket screws.



Butler tablet should appear as pictured.

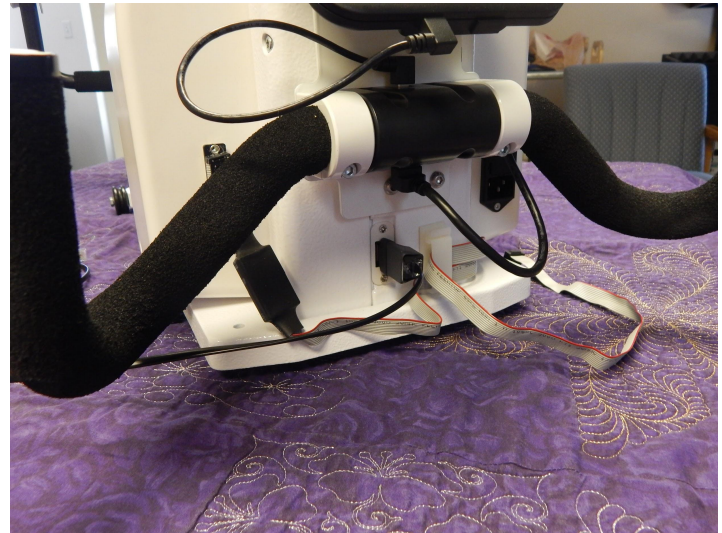


Connect micro USB and DC connectors of the remote cable to the tablet as pictured. The opposite end of the remote cable will connect to the Butler in the remote port.



## 2. Handlebar Cable \*This is only available with the Ruby, Imperial & Professional Butler

Connect the USB connector of the handle bar cable to the King Quilter II as pictured. It is in rear of your machine. The opposite end of the handlebar cable will connect to the Butler in the handlebar port.

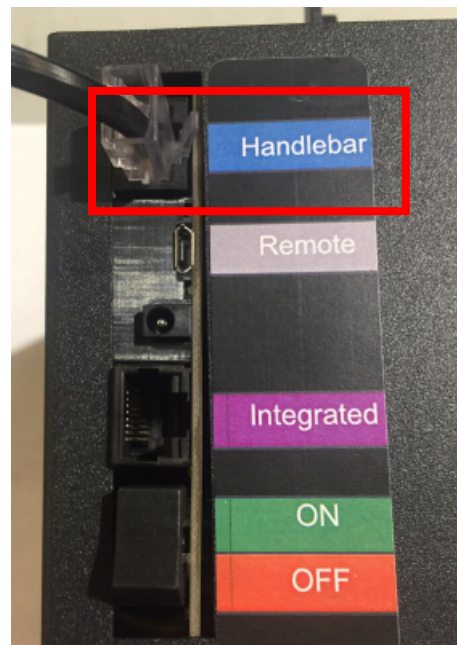


\*\*\*Please do not plug the USB into either display\*\*\*

## Connect Cables \*Only use this step with the Ruby, Imperial and Professional Butler

Plug the phone style RJ50 side of the handlebar cable into the handlebar port on the motor box.

Follow the display cable around the back of the machine and plug the USB end into the machine.



Use the anchors and zip-ties from bag Z1 to secure the cables to the carriage and the machine in such a way that they will not be in the way of moving parts.



\*Image not representative of frame type.

## Check Belt Tension

- 1 Set the machine in the middle of the frame.

The white belt should have between 1" and 1.5"

of play in the belt. The black belt should have approximately 1/4" of play.

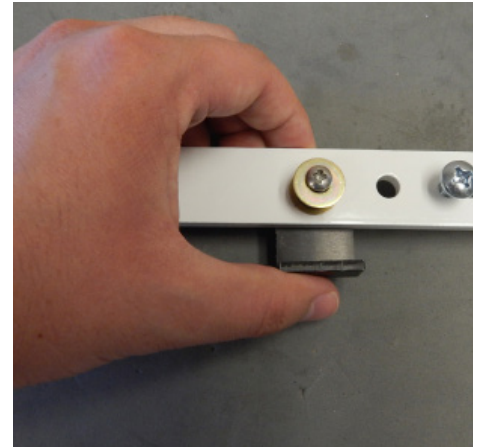
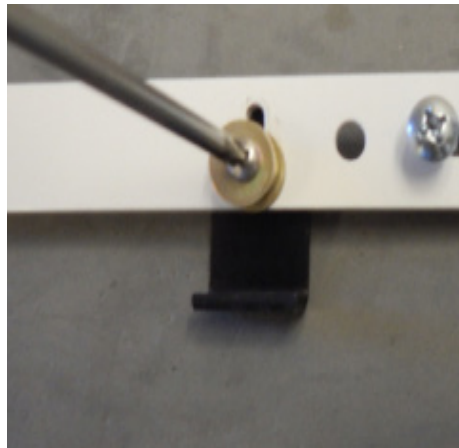
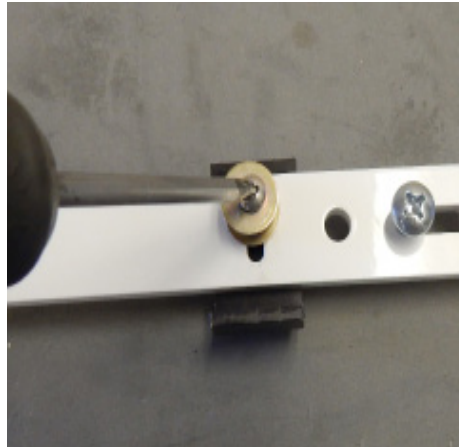


\*Images not representative of frame type.

2

Adjust the tensioner bracket on the rear idler pulley to adjust the tension of the black belt.

Loosen the screw on the pulley, adjust the tension, then tighten the screw back down.



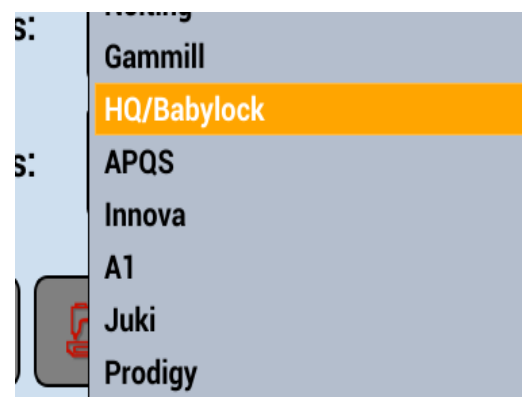
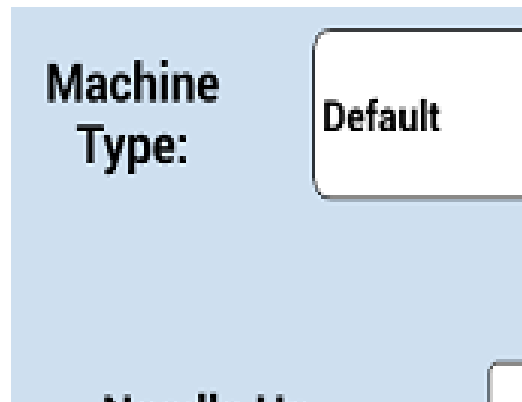
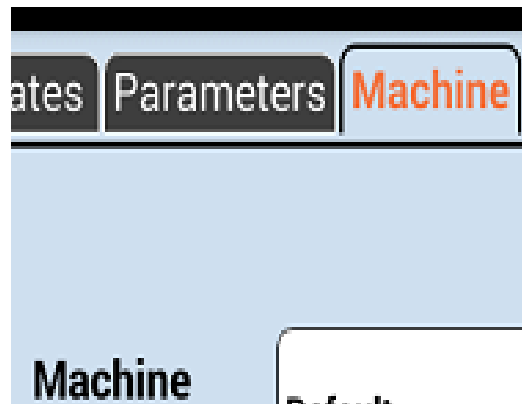
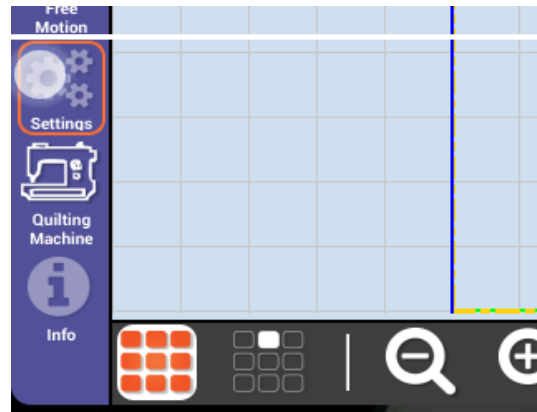
\*Bracket removed from frame for display purposes, bracket may vary in appearance.

# Set Machine Type

\*Only do this with the Ruby, Imperial Professional Butler

- 1 **Android Tablet**  
Power on the display, go to Settings > Machine and set the machine type to HQ/Babylock.

*Some older HQ machines may need to be set to Juki.*





## Appendix B- Additional help

### Installing cables

Please refer to the Connecting Robot to Quilt Machine instruction set for help installing cables.

### Power on the robotics

Use the power switch located on the side of the motor box with the ports to power the motor box off and on.

### Disengage belts for free motion

In order to use free motion with the butler connected the belts will need to be disengaged.

To disengage the x-belt, move the locking lever away from the edge of the motor box.

To disengage the y-belt, loosen the wing-nut on the carriage bracket.

You can now use free motion quilting.

