



How to Attach Butler Robotics to an APQS

APQS Bliss Carriage

In order to accommodate all machine types we use universal parts bags, not all parts will be used in every installation.

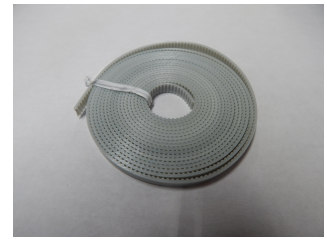
Bag #

Contents

Picture

X1

1-White belt (15')



Y1

1 - Black belt (86")



Z1

5 - 10" Zip ties
10- 5" Zip ties
5 - Plastic anchor
2 - Washer (M5 Flat)
2 - Screw (M5 x 12mm)



D3

1 - Universal display bracket
4 - Screw (M6 x 8mm)
4 - Nut (M6)
2 - Screw (8-32 x 0.5)
2 - Plastic washer



Bag

Contents

Picture

Cables

Vary by machine



X8

2 - L - Shaped bracket
2 - Slotted bracket
*Zip ties, anchor, screws,
washers*



M11

1 - Front motor box bracket
1 - Front motor box bracket clamp
4 - Screw (10-24 x 0.75)
4 - Nut (10-24 K- Lock)



Y15

1 - Carriage bracket
1 - Y bracket
1 - Foam sticky tape
1 - Small screw (10-24 x 0.25)
1 - Thumb screw (10-24 x 0.5)
2 - Nut (M5 K-Lock)



I11

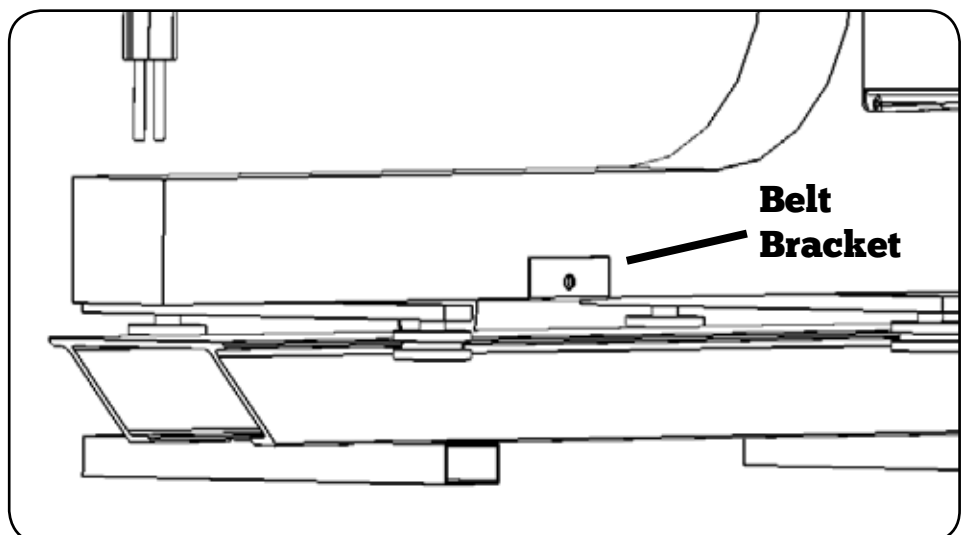
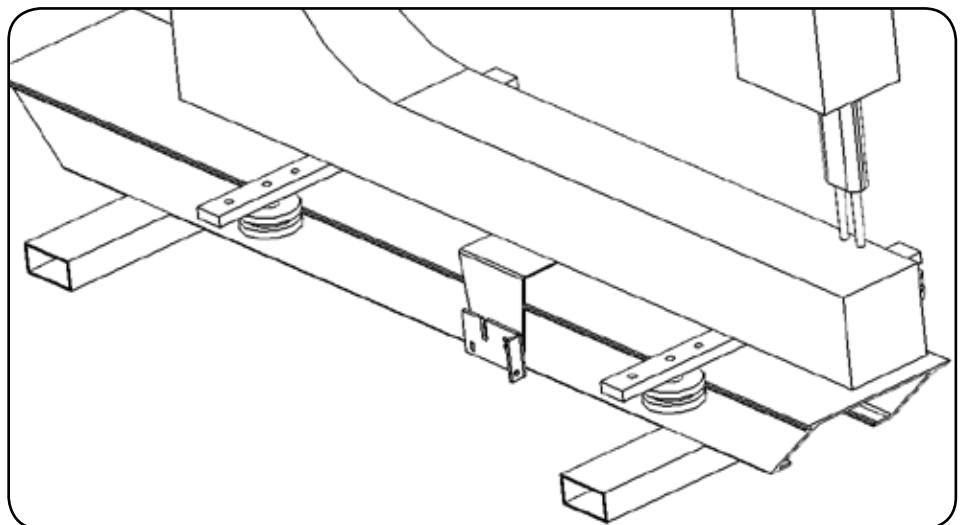
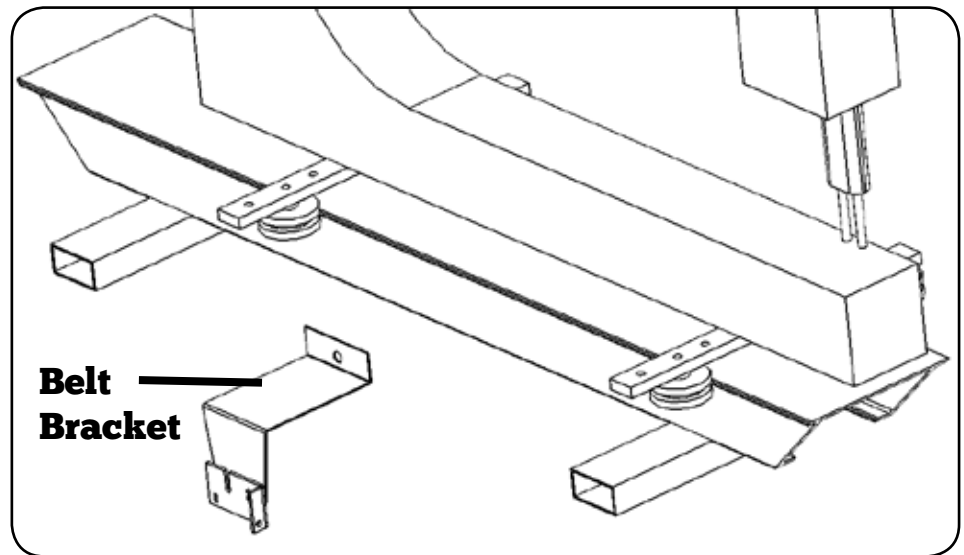
1 - Idler pulley bracket
1 - Idler bracket clamp
1 - Shoulder screw
1 - Pulley
1 - Plastic Washer
4 - Screw (10-24 x 0.75)
5 - Nut (10-24 K- Lock)



Install Belt Bracket (Bag Y15)

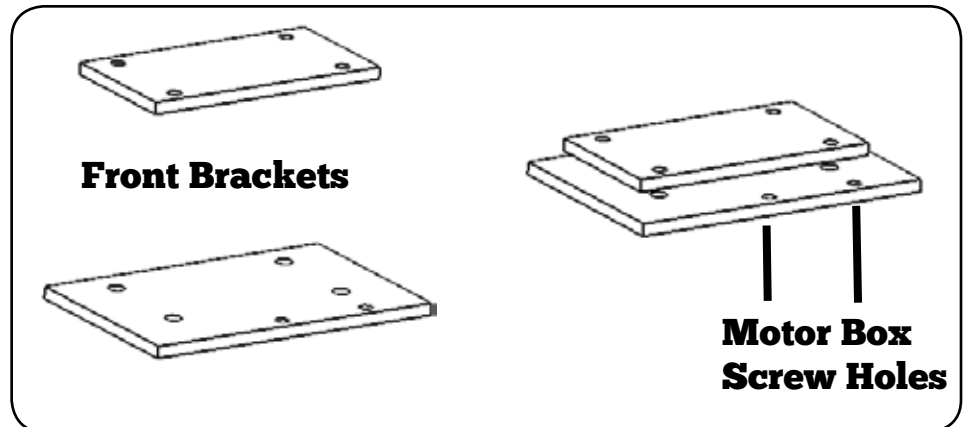
- 1 Install belt bracket to the laser holder post on the left side of the machine.

(Bracket should reach under the machine to the right side of the machine.)

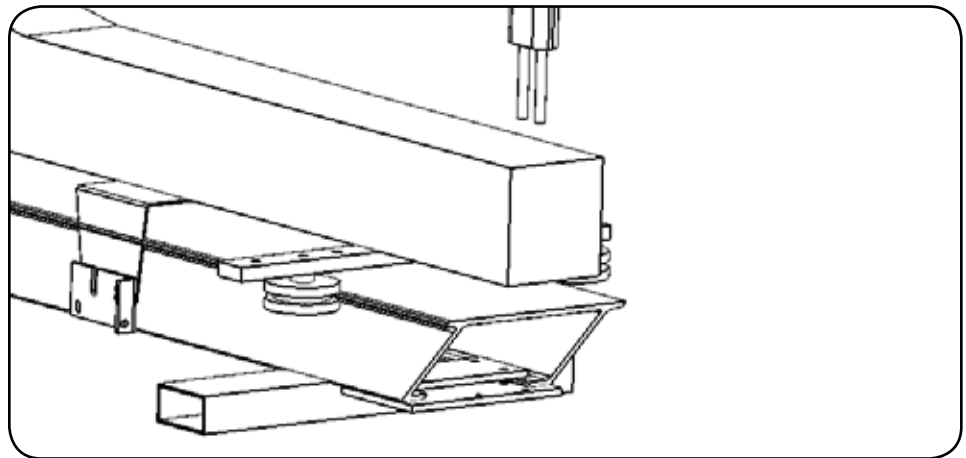
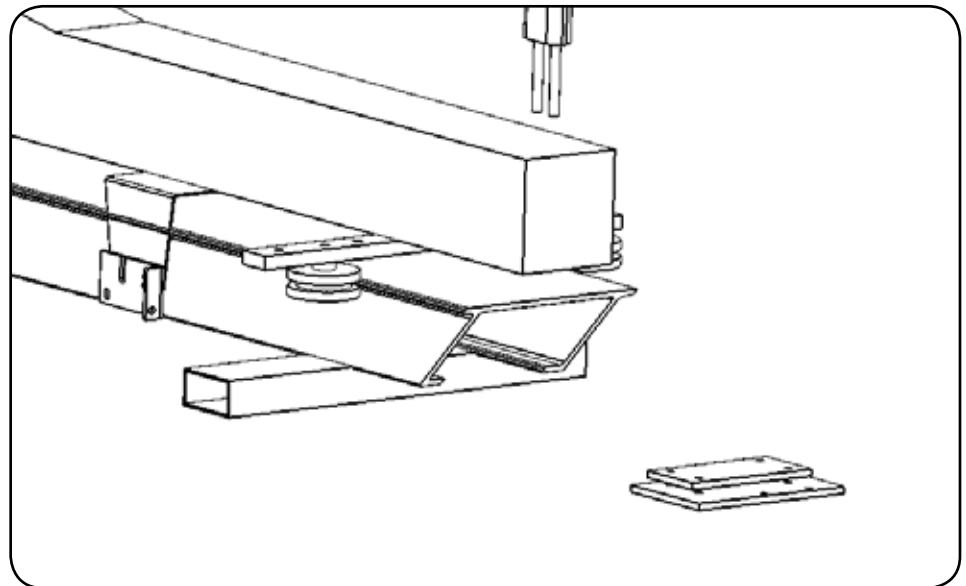


Attach the Front Carriage Bracket (Bag M11)

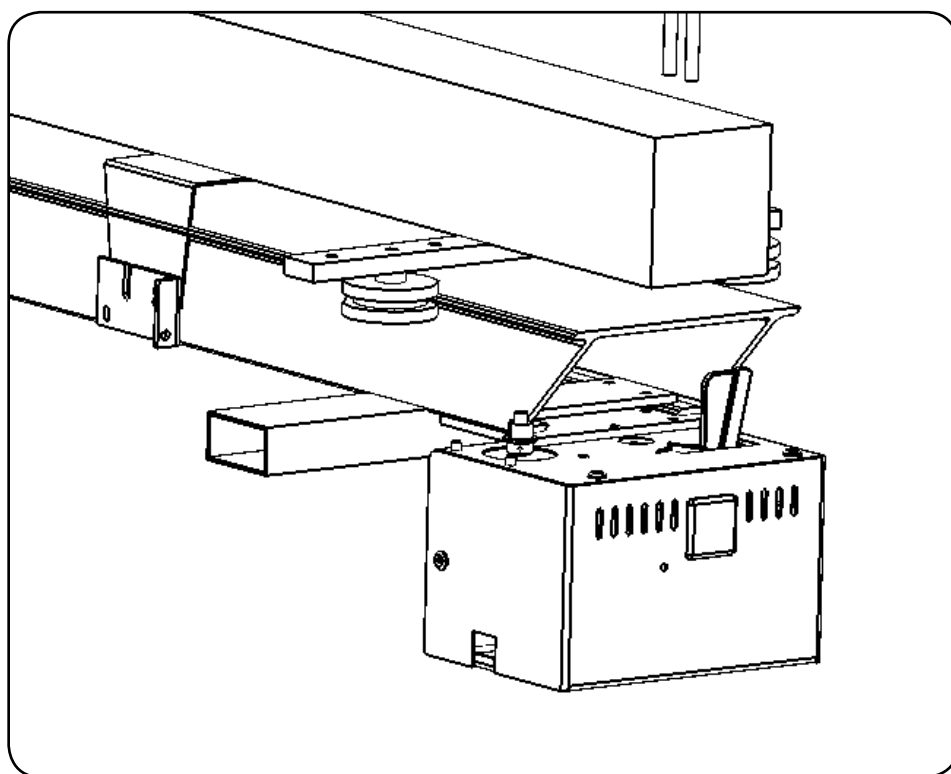
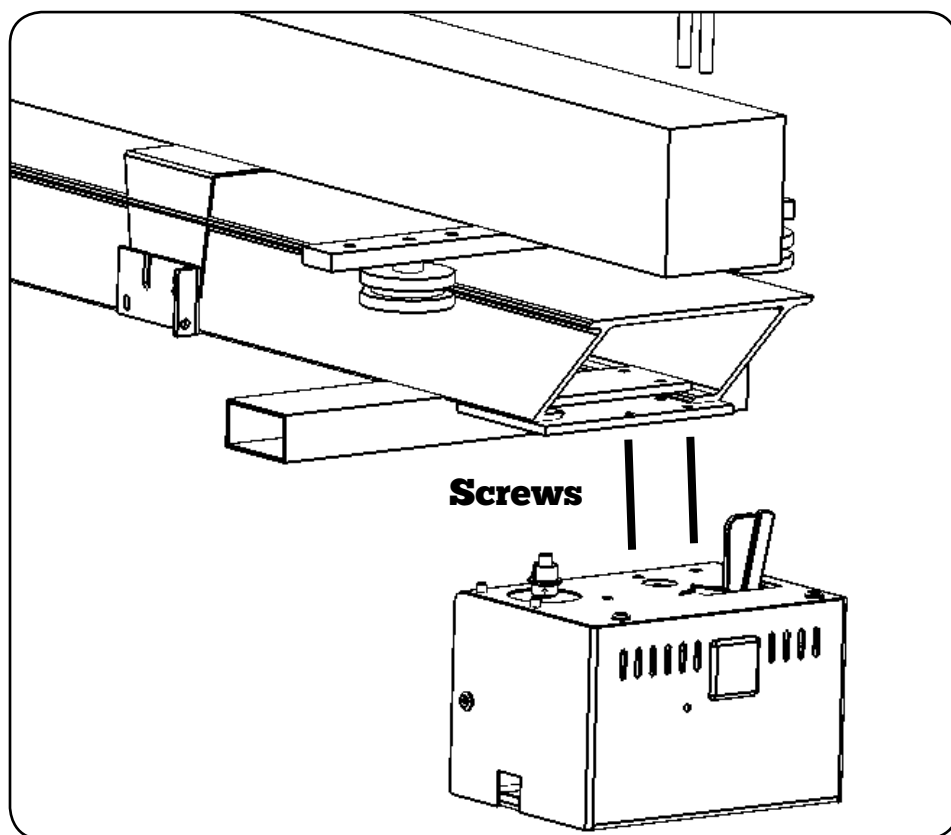
- 1** Attach two front carriage brackets with four provided screws. (The front bracket should have two holes to attach the black motor box.)



- 2** Slide front carriage bracket onto front of machine and tighten screws as needed to secure in place.

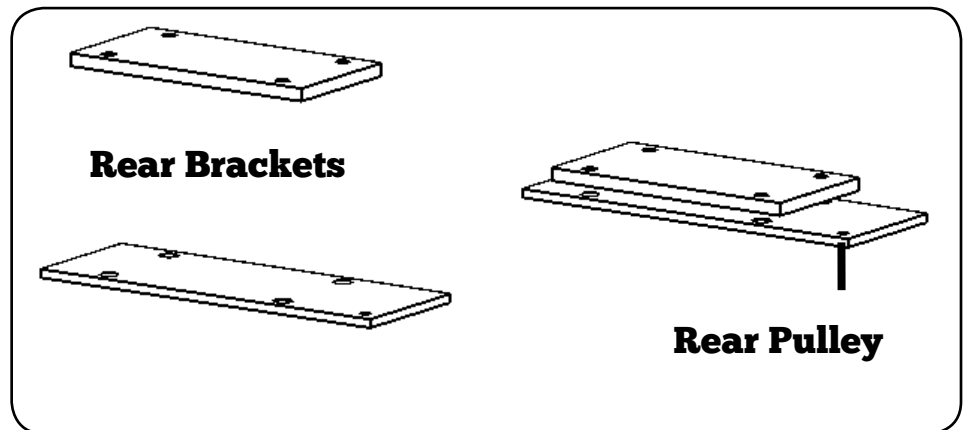


- 3** Attach Motor Box to front carriage bracket using two provided screws. (Make sure bracket isn't too far in, so carriage doesn't hit the tension lever on the motor box.)

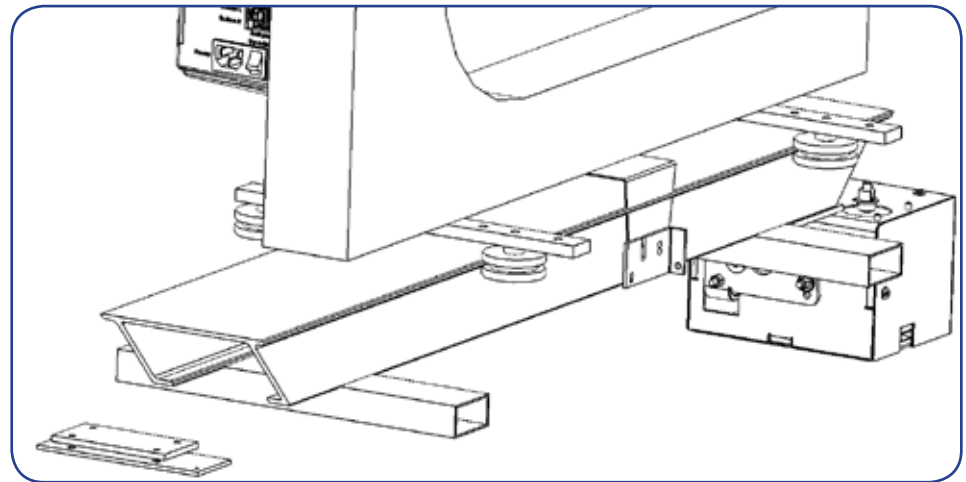


Attach the Rear Idle Bracket (Bag I11)

- 1 Attach the rear carriage brackets together using provided screws. (The rear bracket should have a pulley on it.)



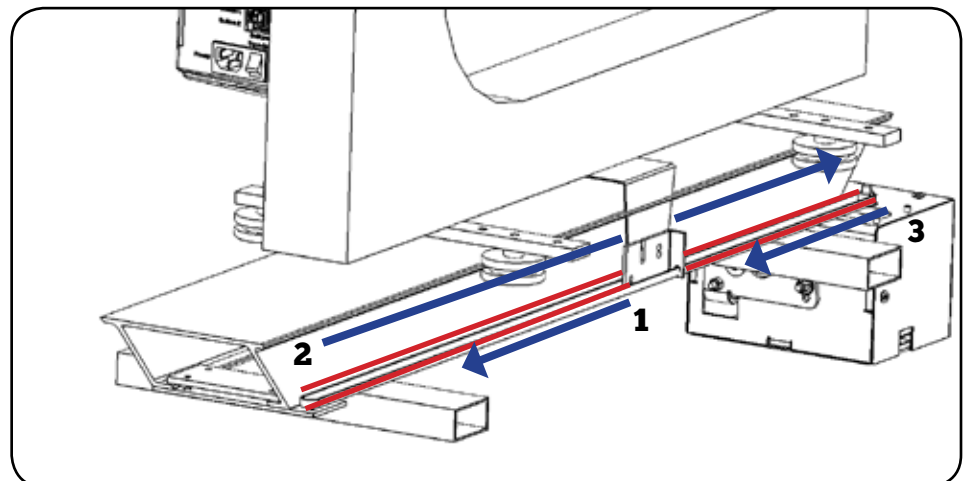
- 2 Slide the rear carriage brackets into place and tighten screws as needed to secure in place.



- 3 Use the zip ties to attach one end of the belt to the slot on the belt bracket.

Wrap the black belt with the teeth facing in around the rear idler pulley and up, behind the carriage bracket to the motor pulley.

Attach the other end of the belt to the eyebolt with a zip ties.



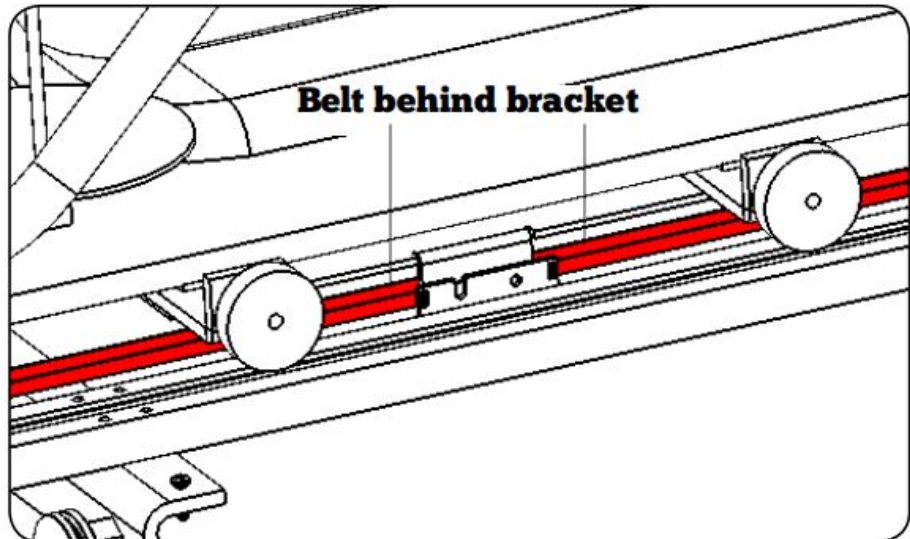
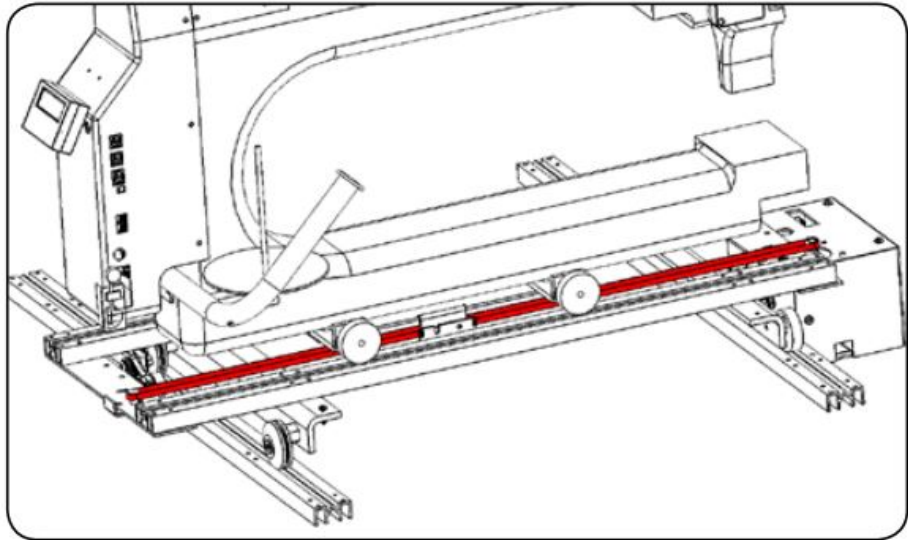
Once the belt is installed the pulley should rotate counter-clockwise as the machine is brought forward toward you.

***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).



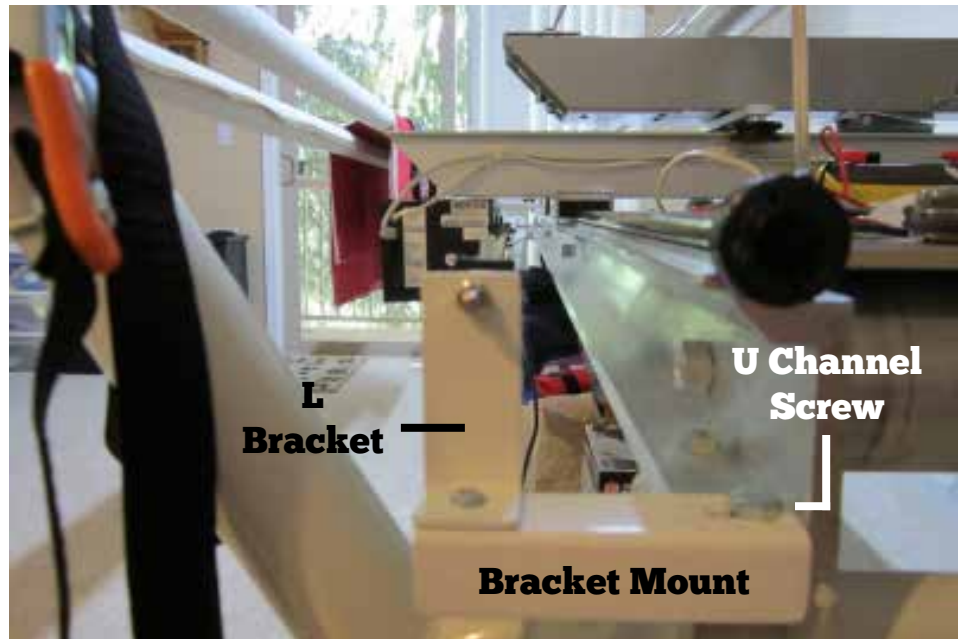
Install White Belt (Bag X8)

1

Remove the U-channel screw to attach the bracket mount to the frame.

Use the provided screws to attach the L bracket to the Bracket mount.

Repeat for other side of frame.



2

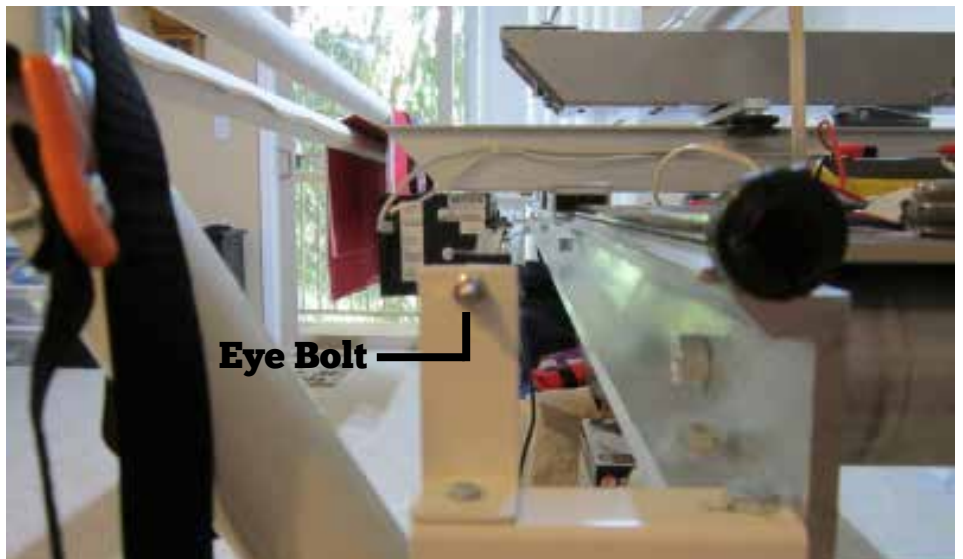
Connect one end of the white belt to an eye bolt using zip ties and install the eye bolt into L Bracket.

Run white belt down the length of the frame to connect the other end of white belt to the other L Bracket, again using belt clamps and an eye bolt.

Ensure the white belt runs through the belt pulley on the side of the black motor box, and pull lever on black motor box to lock into place.



* Please note that belt clamps have changed



Installing Android display bracket

- 1** Remove top two screws on machine head, position the bracket on the head, then reinstall screws to attach display.



- 2** Make sure that the screws are placed on the correct hole on the display bracket.



- 3** Plug the display wire into the remote port.



Connect Handle Bars- This is for the Ruby, Imperial, and Professional Butlers Only

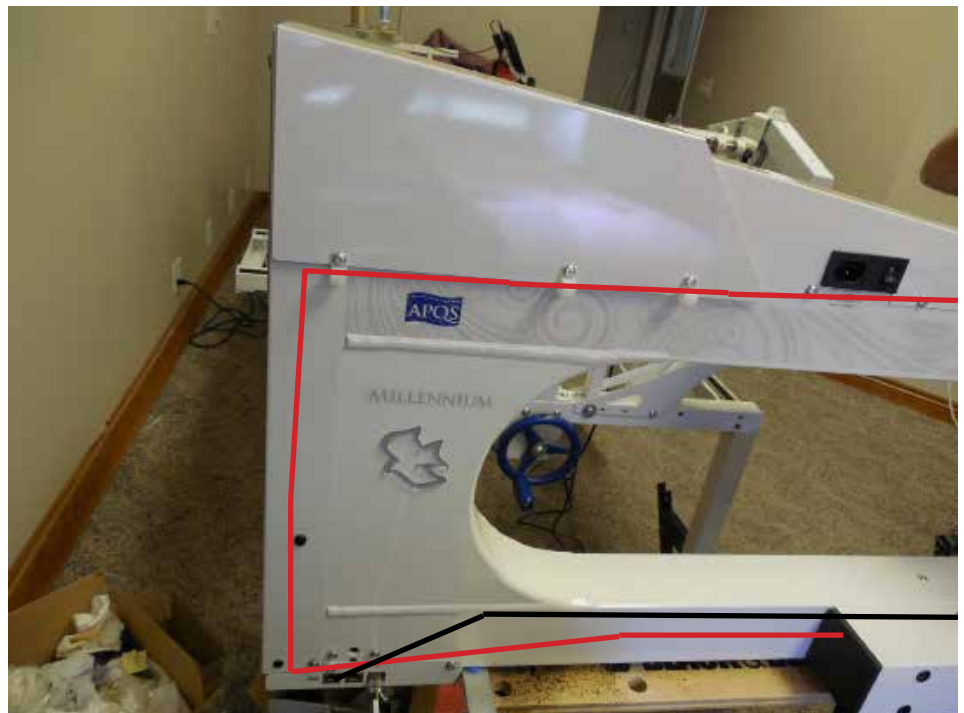
For “Aux Port” Model

- 1** Plug the handle bar wire into the auxiliary port at the rear of the machine.

(Newer models have an AUX—auxiliary— port at the back base of the machine.)



- 2** Run the handle bar wire (black lines at right) to the black motor box.



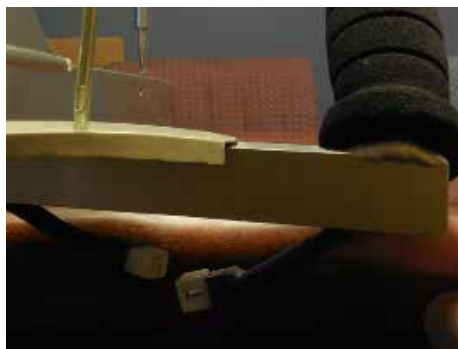
- 3** Plug the handle bar wire into the handle bar port.



Connect Handle Bars-This is for the Ruby, Imperial, and Professional Butlers Only

For Pre “Aux Port” Model

- 1** Locate and disconnect the two rear handle bar cables.



Connect Handle Bars

- 2** Connect the included Y cable to the rear handle bars. (The Y cable will be labeled left and right to indicate which rear handle bar to connect to.)

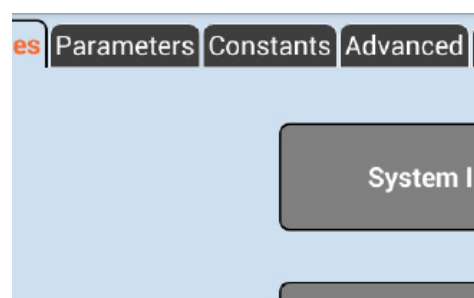
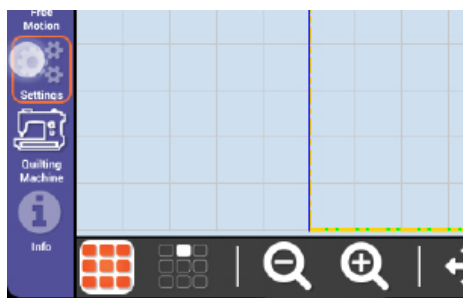
Left handlebar is the one you place your left hand on when operating from the rear.



Set Machine Type-This is for the Ruby, Imperial, and Professional Butlers Only

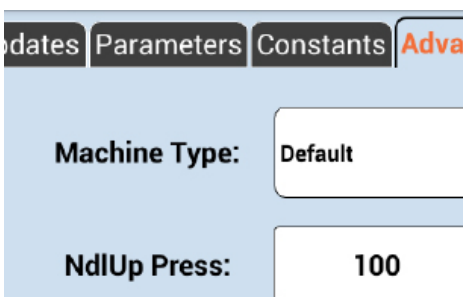
Android Display:

- 1** Power on the display, go to **Settings > Updates** tab.



- 2** Select Machine Type.

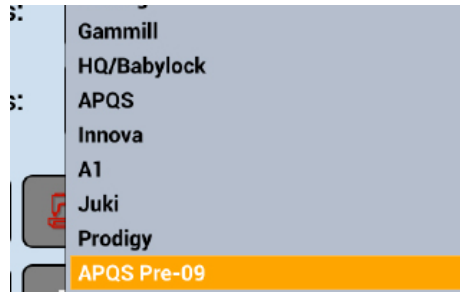
See next page to determine machine type settings.



Which Machine Type?

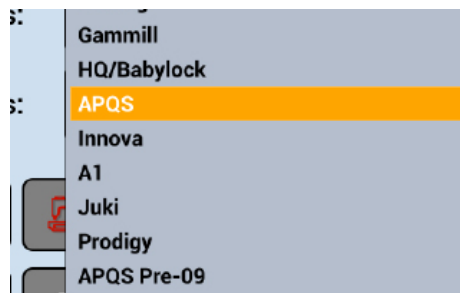
Pre “AUX Port” Model

Select Machine Type and set the machine type to APQS Pre-09.



“AUX Port” Model

Select Machine Type and set the machine type to APQS.



Check Belt Tension

- 1 A correctly tensioned belt won't be as tight as a piano string but not sagging either. Aim for a taught belt.

Adjust belts as necessary.

Appendix- Additional help

Installing cables

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

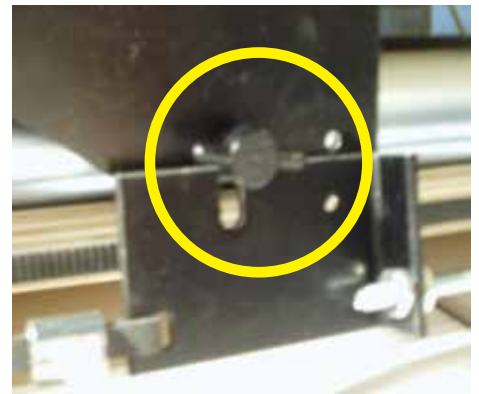
Power on the robotics

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.



Still need help?

Visit support.quiltez.com for
tutorial videos and additional
help documentation