How to Attach Butler Robotics to a Gammill Breeze Frame

11/12/2014

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12	White Belt, eyebolts, belt brackets	
26	Stylus, zip ties, anchor	
28	Motor Pulley Cover	

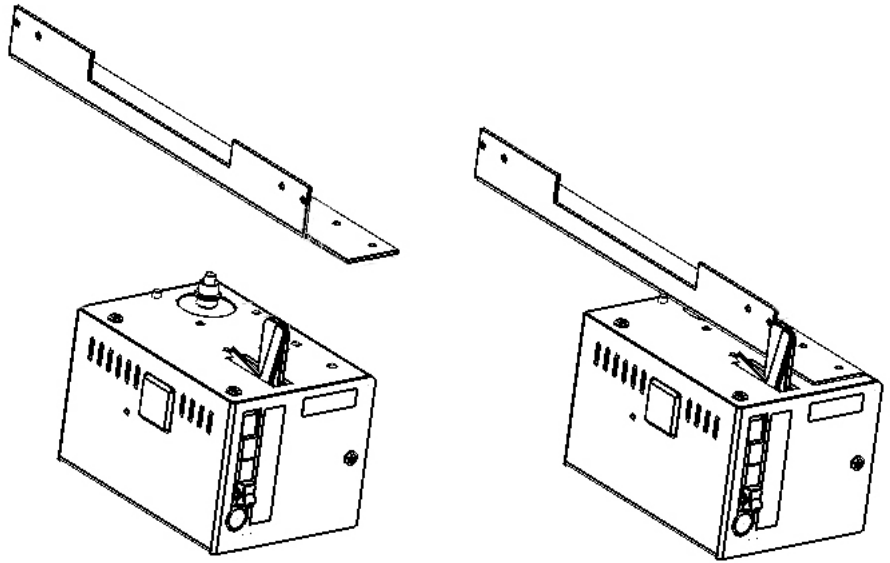| 39 | Display Bracket | |
42	White belt brackets	
43	SD Card	
56	Front Carriage Bracket	
57	Black belt Bracket, Black Belt, Spacers	
58	Rear Idle Bracket	

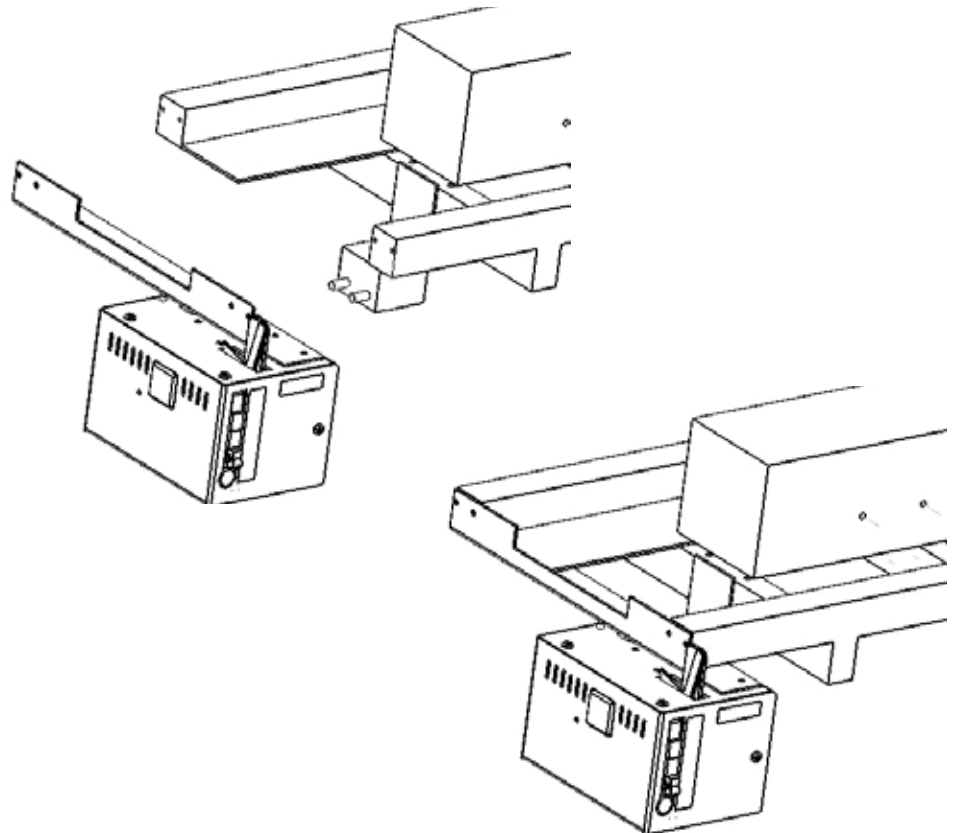# Attach the Front Carriage Bracket

1   Attach Bracket to top of the motor box with provided screws.

(Bag #56)

2   Attach Bracket to front of carriage with provided screws.

(Bag #56)

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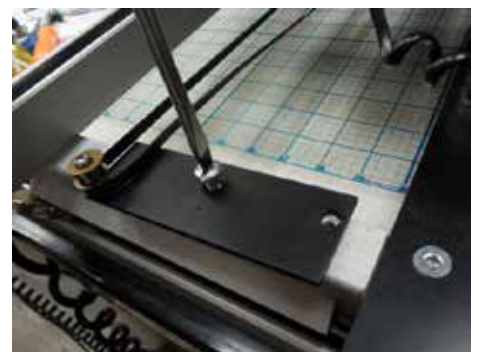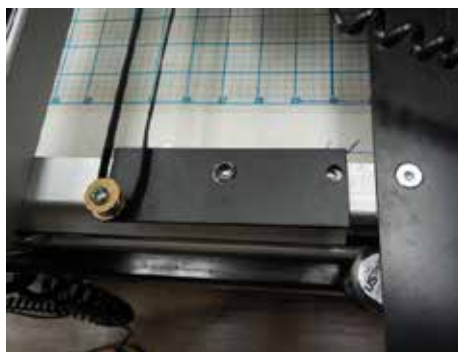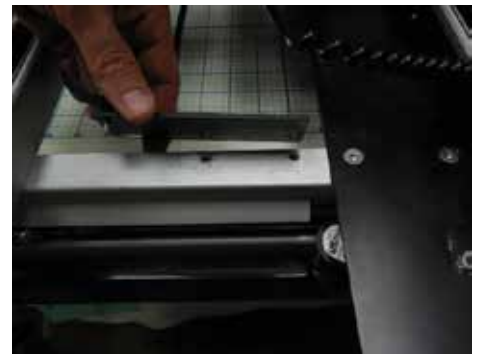# Attach the Rear Idle Bracket

1
Position the Rear idle bracket at the back of the carriage.

(Bag #58)

2
Align bracket holes with those on the back of carriage. Screw into place with provided screws.

(Bag #58)

Belt Bracket Assembly

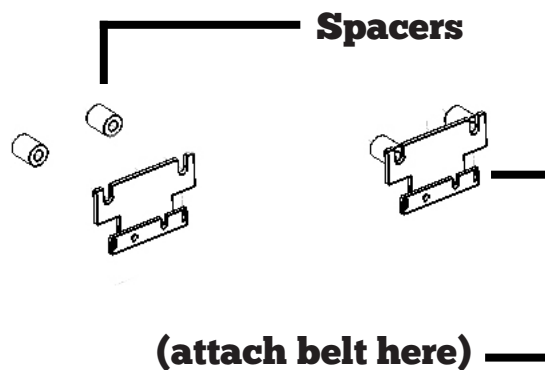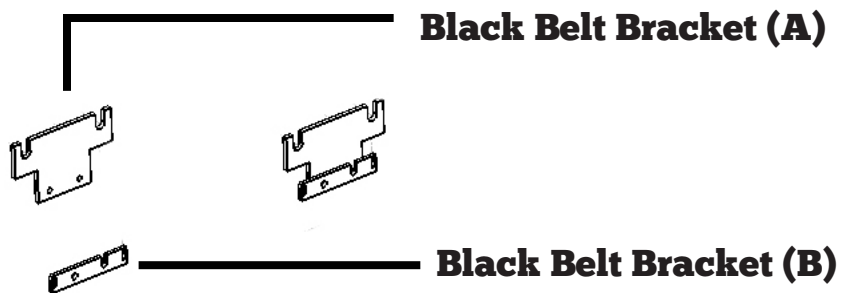**1** Loop black belt around idle pulley and the top pulley of the black motor box.

(Bag #57)

2 Assemble the two black belt brackets and spacers.

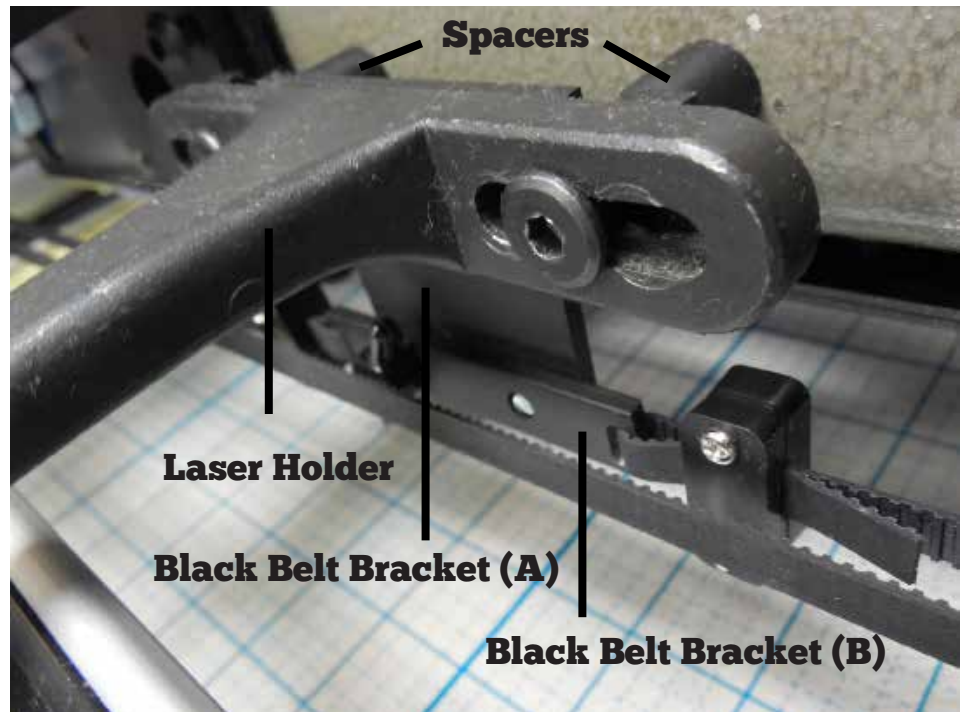Attach belt with belt clamps to the belt bracket.

(Bag #57)

Black Belt Bracket (A)

Black Belt Bracket (B)

Spacers

(attach belt here)

3

Remove the laser holder, insert belt bracket assembly, and reattach using laser holder screws.
(Bag #57)

Continued

Spacers

Laser Holder

Black Belt Bracket (A)

Black Belt Bracket (B)

Belt Bracket Assembly

Attach White Belt

1   Sandwich the two belt brackets across the joint of the frame.

Attach the white belt to the I bolt using the belt clamps, then screw into the brackets.
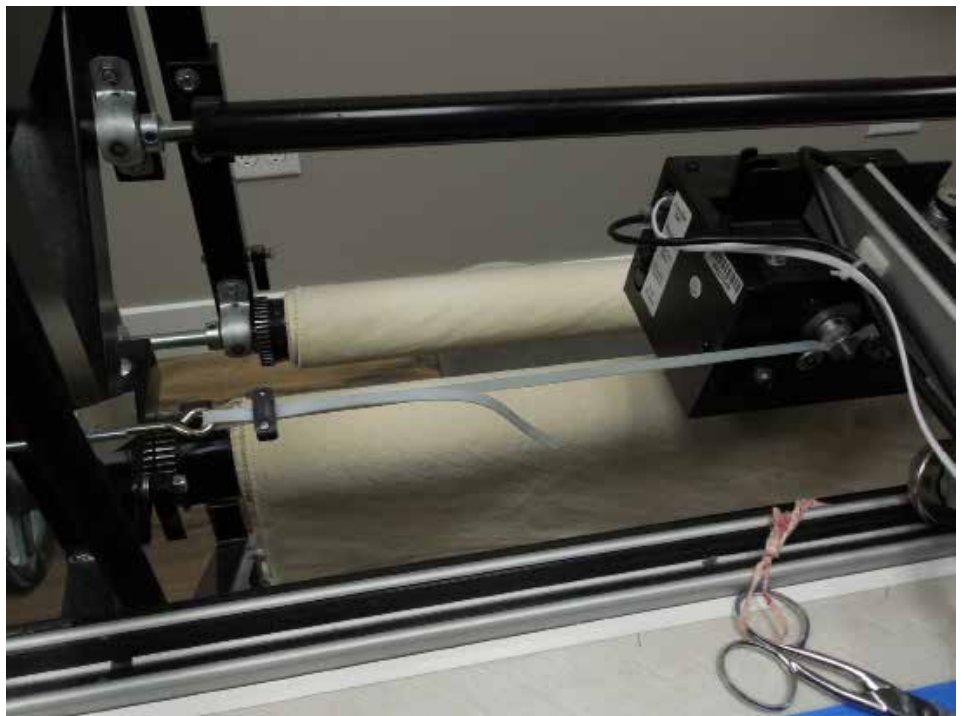
(Bag #42)

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2   Ensure that the white belt aligns with the pulley on the black motor box, teeth facing up toward the ceiling.

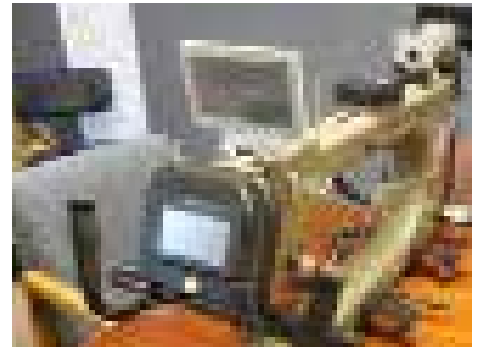**(Bag #42)**

Attach Display

1 Looses two black screws on head of machine 1/4 turn, just enough to slide the display bracket under screw heads. Tighten to attach.

(If you loosen screws too much, a bracket inside the machine head may fall, requiring you to reattach it.)

(Bag #39)
(Bag #40)

Run Cables

1 Run the display cable (shown in thin white at right) along the top of the machine and down to the Black motor box.

Run the white handle bar cable (shown in thick white at right) up from the black motor box back to the rear handle bars.
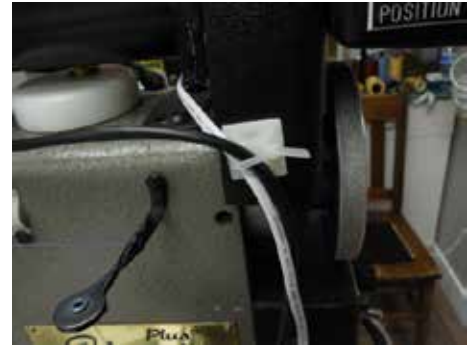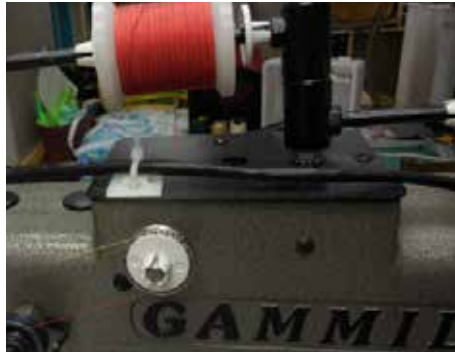
See page 13 for how to connect handle bar wire to rear handle bar buttons.
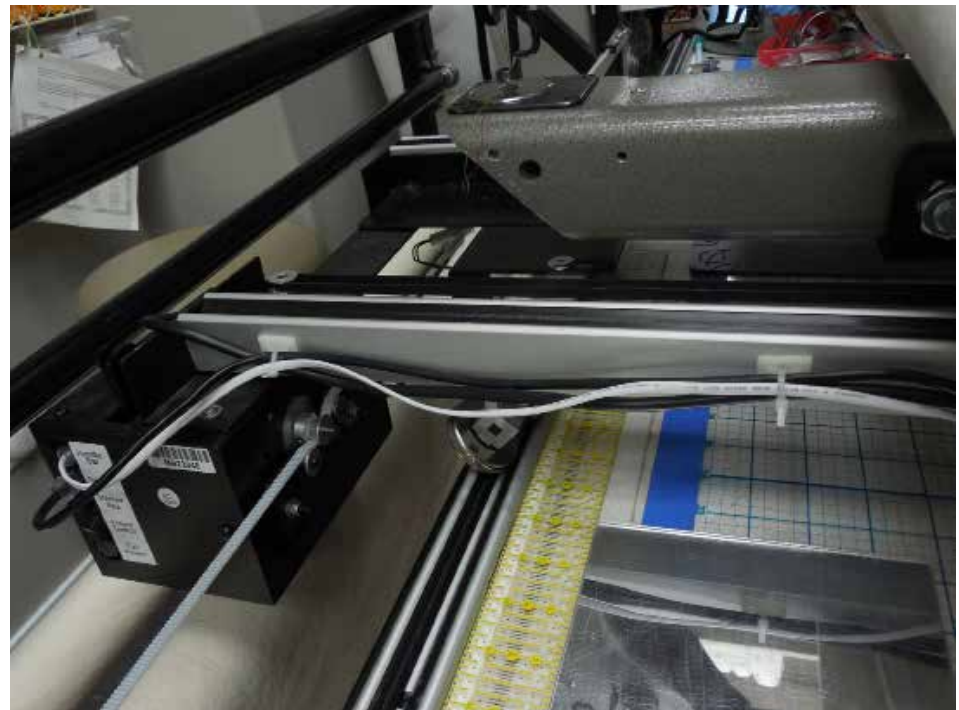
2

Use a zip ties and anchor to hold cables in place on the top of the machine and the side of the carriage. (Do not tighten zip ties until all wires are in place.)

(Bag #26)

Continued

Rear Handle Bar Wires

If you have a Quilt-EZ upgraded Stitch Regulator, than this Rear Handle Bar Wires section does not apply. Connect to

1 Remove the rear handle bar button and detach the spades that connect to the button wires.

(Bag #40)

If metal prongs get stuck:

Remove the metal prong from the spade.

Reinsert metal prong into the button.

Quilt EZ Button Cables

Each button cable has a label indicating which button it should be used with. Start/Stop is to be used for the button that starts and stops the stitch regulator, and Needle Up is to be used for the button that positions the needle up or down.

2   Connect the two ends of the included Quilt EZ button cable into the metal spades of the button.

Connect the original button wires to the remaining end of the Quilt EZ cable.

(Bag #40)

3   Reinsert the newly wired button into the handle bar.
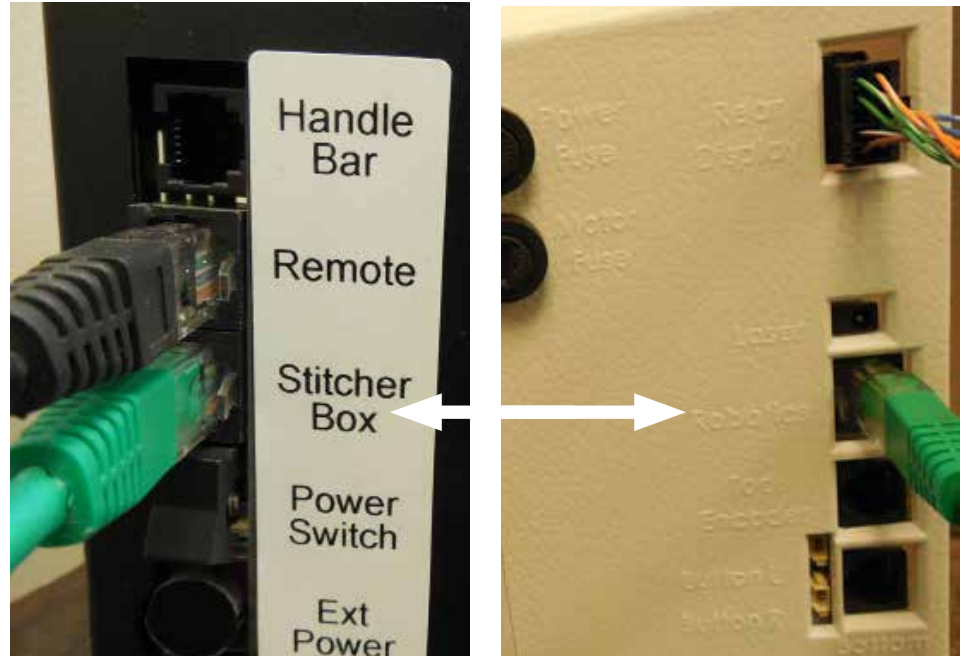
Repeat Steps 1-3 for the remaining handle bar button.

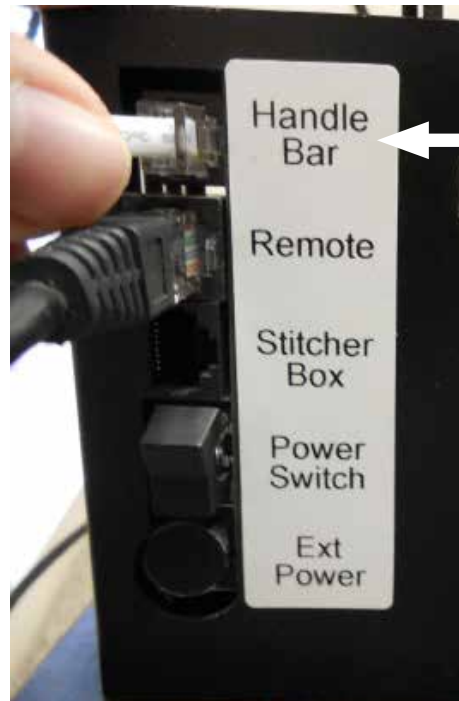**Rear Handle Bar Wires**

Connect Wires

For Perfect Stitch

Plug network cable into Stitcher Box port on Black Motor Box.

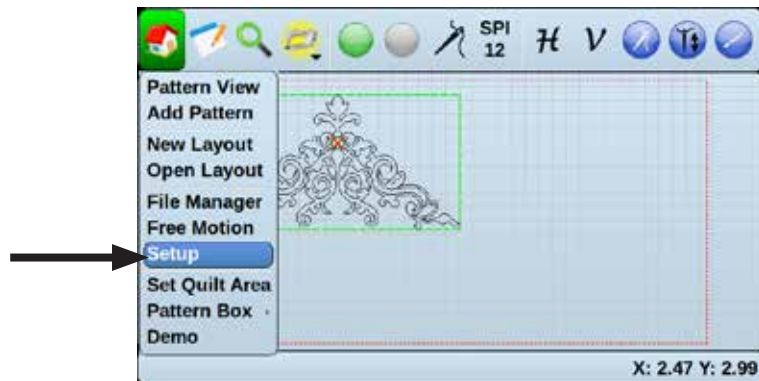Plug remaining end of cable into the robotics port of the Perfect Stitch PCB box.

For Non-Perfect Stitch

Plug the remaining end of the Handle Bar Wires into the Handle Bar port.

Set Machine Type

1   Power on the display, go to Setup > Advanced and set the machine type to Gammill.
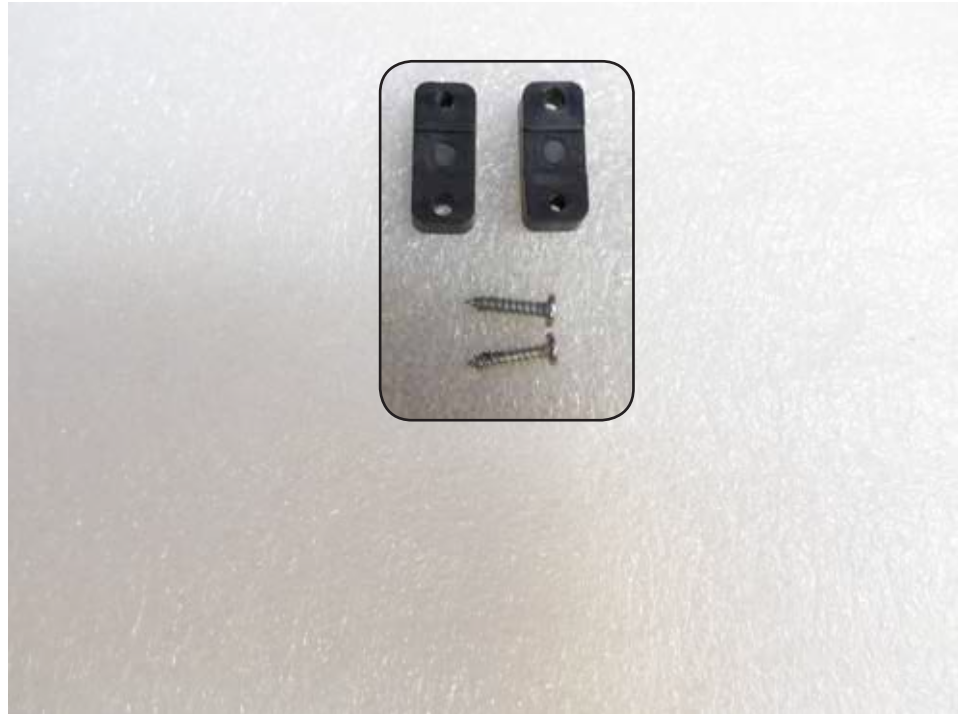

Check Belt Tension

1   A correctly tensioned belt won't be as tight as a piano string but isn't limply sagging.

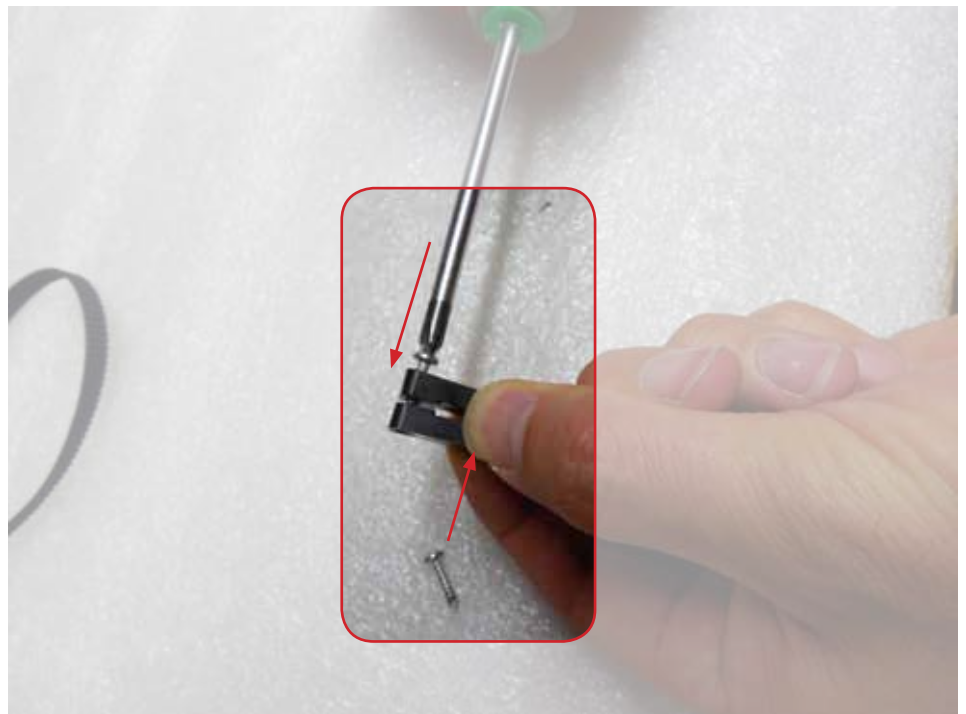Adjust belts as necessary.

Attach Belt Bracket/Belt

Appendix A - How to use Belt Clamps

A belt clamp consists of two clamps and two screws.

1 Using a Phillips screwdriver, insert each screw on opposite sides of the clamps and tighten halfway.

2   Thread the belt between the clamps, loop it around and reinsert it between the clamps.

3   Align the belt teeth, then finish tightening the clamps.

Still need help?

Visit quilt-ez.com to learn how to contact us and find additional help material.