Part No.

INSTALLING THE DRIVE SYSTEM

GRACE PINNACLE

In addition to the hardware kit that you received with the QBOT, you will need the hardware in this kit to complete the installation on your frame.
The hardware kit for the Grace Pinnacle frame includes:

(8) 6mm X 45mm screws
(12) Aluminum spacers
(2) Special Y-axis brackets
(1) ¼-20 X 1" screw
(1) ¼-20 nut

STEP 1. First, install the X-axis drive bracket on the lower carriage as shown in Figure 1 below. Note that the drive bracket mounts to the rear of the lower carriage and will be at the rear of the machine when the carriage is placed on the frame. You will need two (2) 6mm X 45mm screws and four (4) aluminum spacers from this kit for the installation. Figures 2 and 3 show a close-up of the attachment points.

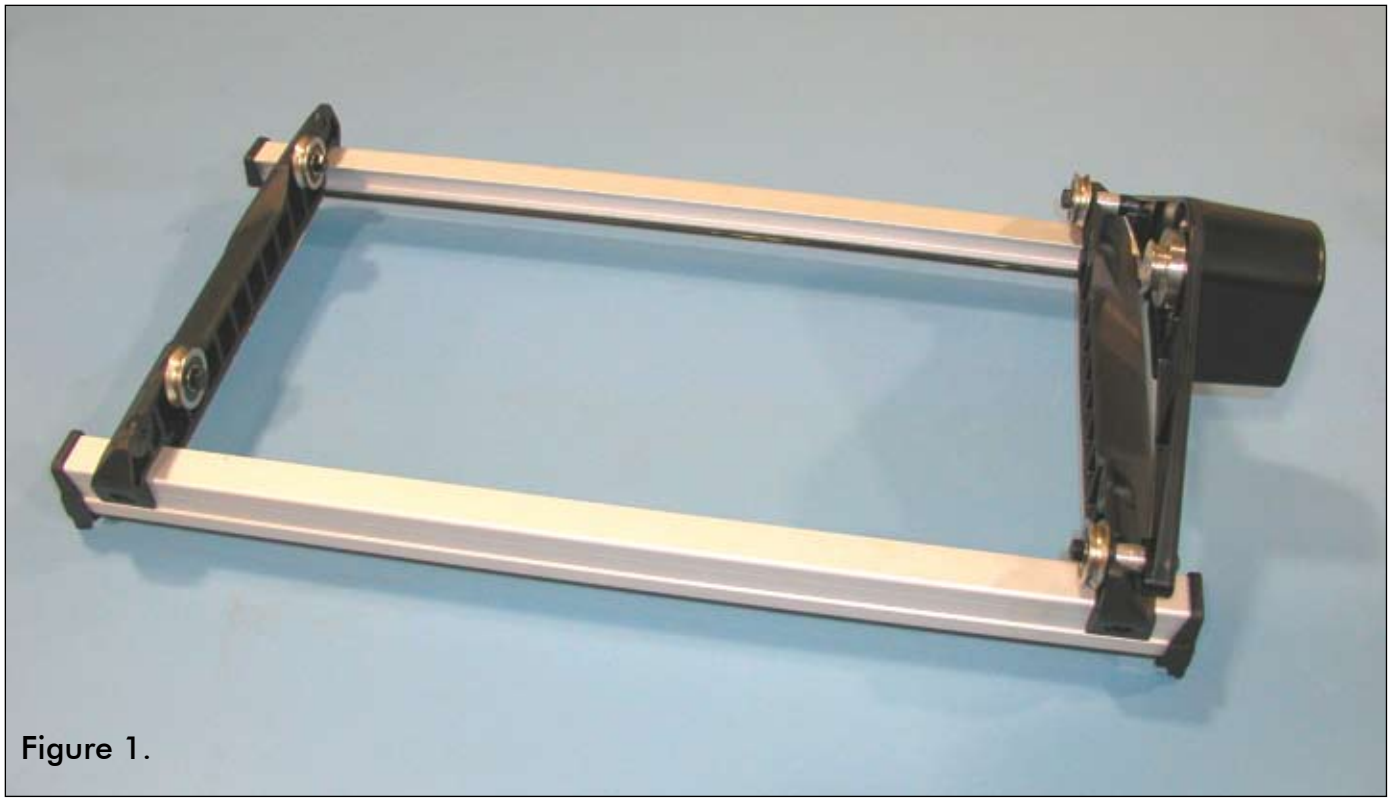

Figure 1.

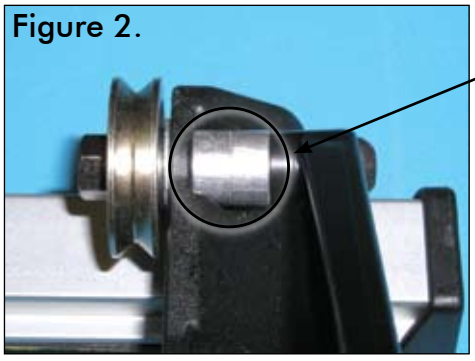

Figure 2.

(2) Spacers each side

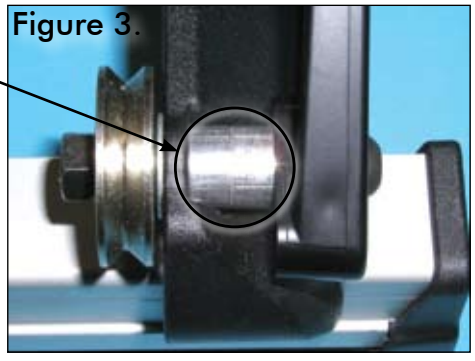

Figure 3.

STEP 2. Next, install the special Y-axis wire holders that came with this kit. Notice the orientation of these brackets shown in Figures 4 and 5. You will need two (2) 6mm X 45mm screws and two (2) aluminum spacers from this kit to complete this step. The Y-axis wire holders will be on the RIGHT HAND SIDE of the lower carriage as viewed from the back of the frame.

First, remove the screws at these locations and set aside (you will not be using these screws again.) Be sure to retain the nuts on the opposite side, you will need those when assembling with the longer screws. Place the new screw through the appropriate Y-axis wire holder, slide on the aluminum spacer and then insert the screw and tighten.

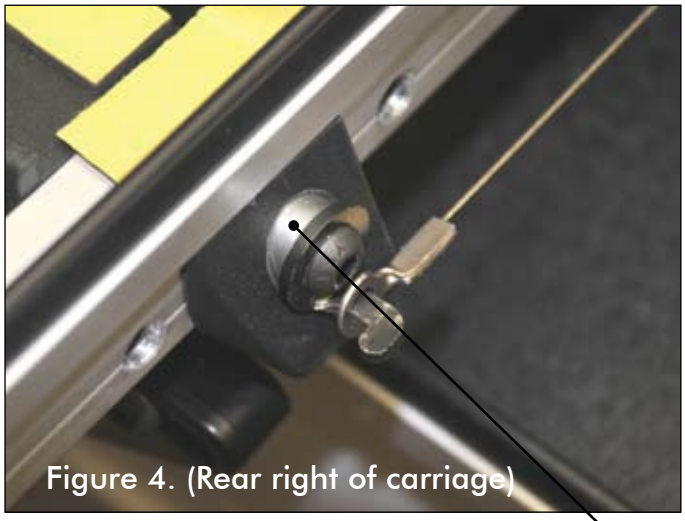

Figure 4. (Rear right of carriage)

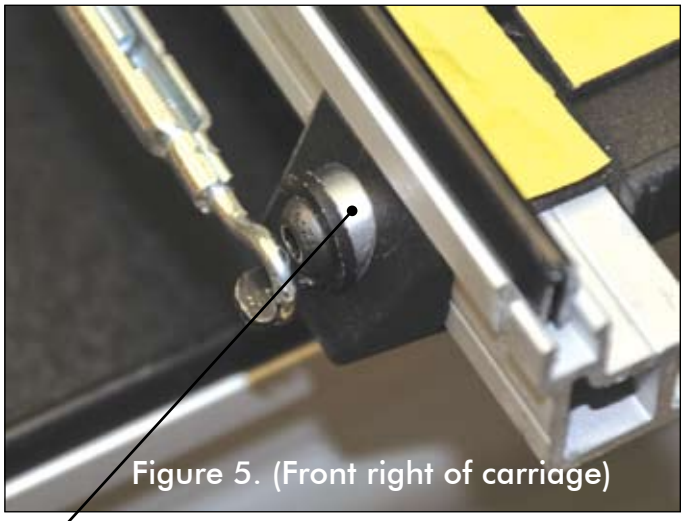

Figure 5. (Front right of carriage)

Aluminum Spacer

STEP 3. Next, attach the X-axis wire holders to the rear of the quilt frame as shown below. You will need two (2) 6mm X 45mm screws and two (2) aluminum spacers from this kit and the two (2) X-axis wire holders from the QBOT package to complete this step.

First, remove the upper screws from the frame corner pieces at the rear of the frame. Replace these screws with the two longer screws. Place the X-axis brackets and aluminum spacers as shown in Figures 6 and 7.

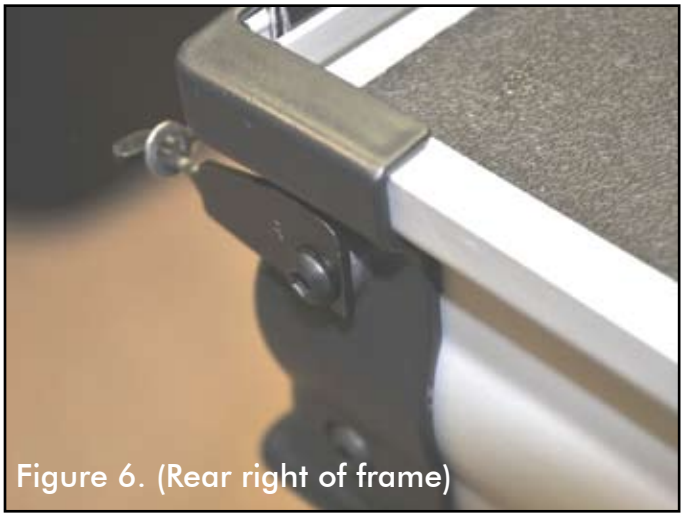

Figure 6. (Rear right of frame)

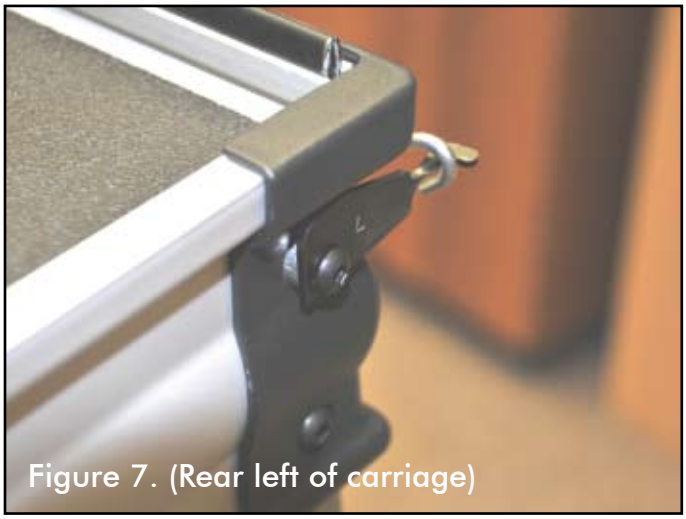

Figure 7. (Rear left of carriage)

STEP 4. Next, install the Y-axis drive bracket to the upper carriage as shown in Figure 8. Look at the assembly details shown in Figures 9 and 10. You will need two (2) 6mm X 45mm screws and four (4) aluminum spacers from this kit and two washers from the QBOT installation hardware for this step.

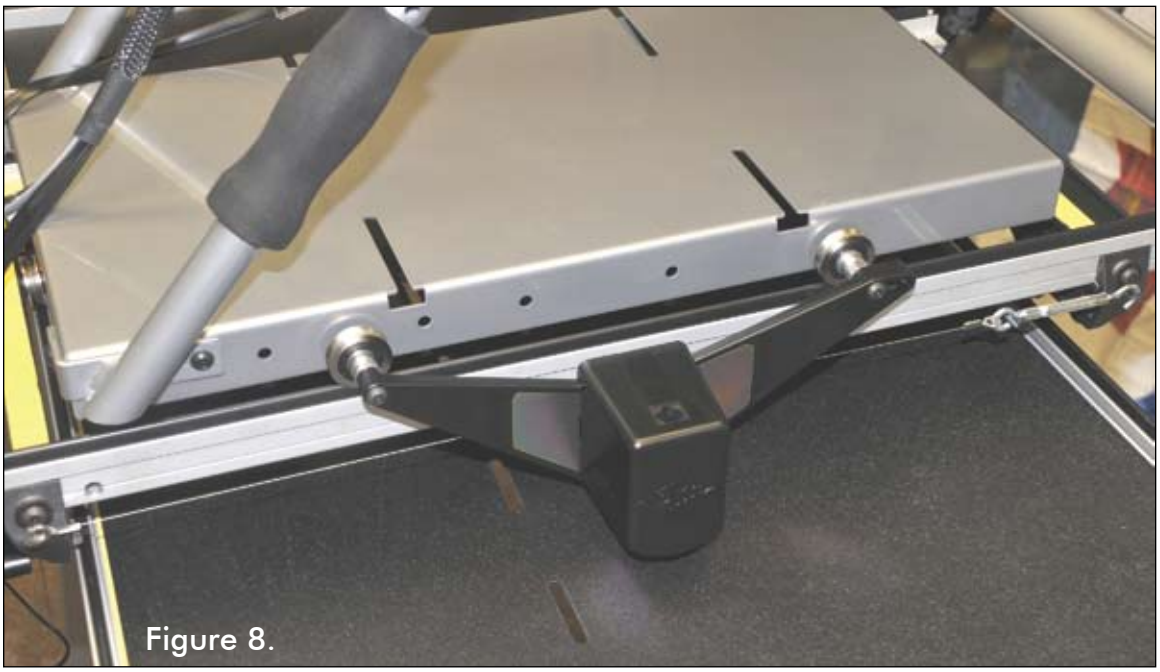

Figure 8.

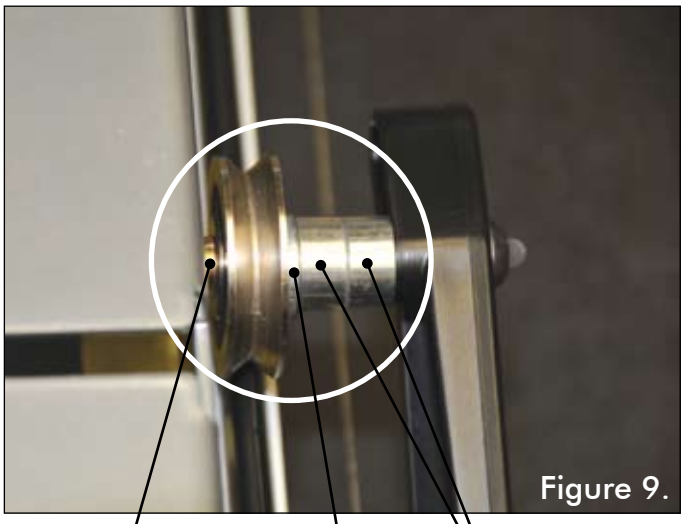

Figure 9.

Brass Spacer
(comes with frame)

Washer

Spacers

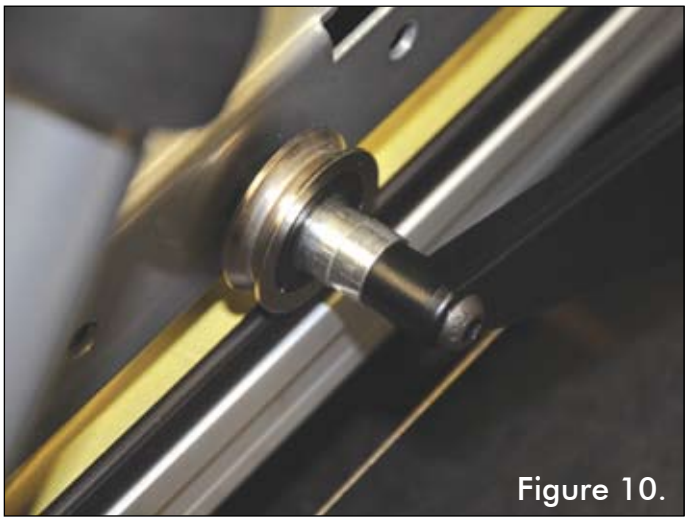

Figure 10.

Once you have installed the Y-axis drive bracket, place the upper carriage on top of the lower carriage and place both on the quilting frame.

STEP 5. You are now ready to attach the X-axis and Y-axis drive wires that came with your QBOT. Consult your QBOT manual, pages 5 and 7, for the proper wire wrapping instructions for the Y-axis and X-axis respectively. Attach the tensioners as shown in Figures 11 and 12. Note the tensioner for the Y-axis (Figure 12) mounts on front side of the lower carriage not the rear side as shown in the QBOT manual on page 5.

Figure 11.

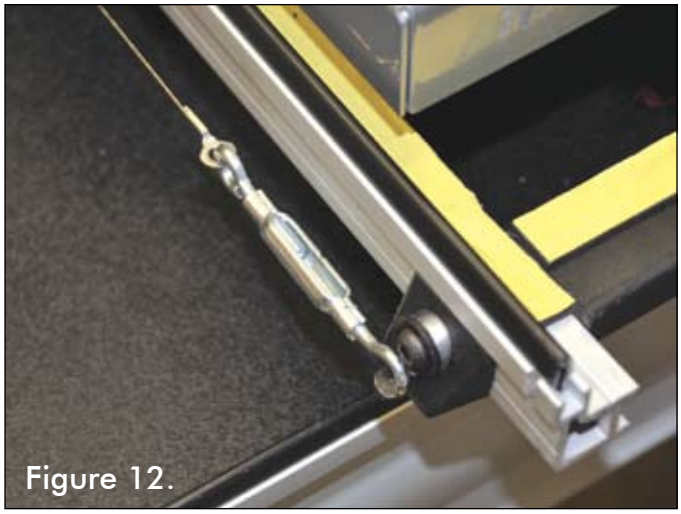

Figure 12.

STEP 6. Mount the QBOT with the ¼-20 X 1" screw and nut from this kit as shown in Figure 13. Finish off the installation by connecting the wiring harness as shown in your QBOT manual.

Figure 13.