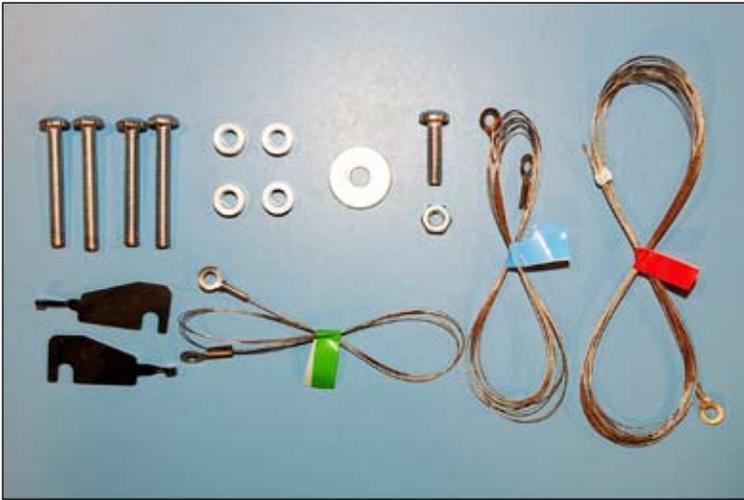


INSTALLING THE DRIVE SYSTEM

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 GMQ Pro includes:

- (4) 1/4-20 x 2" screws
- (4) Aluminum spacers
- (2) X-axis brackets
- (1) X-axis drive wire 6 ft. length
- (1) X-axis drive wire 12 ft. length
- (1) Y-axis drive wire
- (1) 1/4-20 X 1" screw
- (1) 1/4-20 nut
- (1) 1/4" fender washer



Using two of the 1/4 X 2" long screws and two of the aluminum spacers, attach a drive bracket to the rear of the lower carriage. This procedure is similar to what is shown on page 2 of your QBOT user manual. Look closely at the pictures below to see where to place the aluminum spacers. Tighten the screws securely.



INSTALLING THE DRIVE SYSTEM

Install the two X-axis brackets that came with this hardware kit on the lower carriage as shown. The bracket labeled with an 'L' mounts to the rear left-hand side of the lower carriage. The bracket labeled with an 'R' mounts to the front right hand side of the lower carriage. Simply loosen the screw on the carriage and slip the bracket under the head of the screw. It is important that they are attached at the angle shown in the pictures. This will ensure that the drive wire will be installed level.



The front attachment looks like the picture to the left. The drive wire is shown installed and the tensioner has been adjusted to the correct tension using the tensioning template found at the back of your QBOT manual.

Using the remaining $\frac{1}{4}$ -20 X 2" screws and aluminum spacers, attach a drive bracket to the upper carriage as shown in the picture to the right. Note the location of the aluminum spacers. Tighten the screws securely.

You will install the drive wire in the next step.

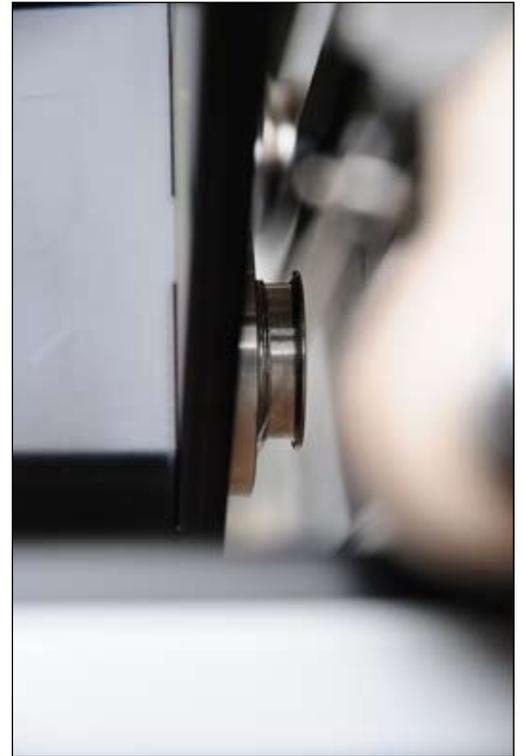
Aluminum spacers



INSTALLING THE DRIVE SYSTEM

The drive wire is installed by hooking one end of the wire to the rear wire bracket and winding twice (2X) around the drive wheel. Looking at the picture to the right, note how the drive wire is wrapped around the wheel so that it is on the bottom side of the drive wheel. Wrapping the wire the wrong way (off the top side) will cause the carriage to go backwards.

Hook the eyelet at the other end of the wire on one side of the tensioner as shown in the picture below. Hook the other end to bracket as shown and tighten the tensioner until the tension in the wire falls in the proper range shown on the tensioning template. See page 5 of the User Manual for reference.



GRACE GMQ PRO



INSTALLING THE DRIVE SYSTEM

Attach the other set of X-axis brackets to your frame on either end as shown in the photos to the right. Note the orientation of the brackets. Simply loosen the screw on the frame and slide the bracket underneath the head of the screw. Tighten securely.



Attach one end of the drive wire to the X-axis bracket as shown in the top photo. Wrap the wire around the drive wheel twice and ensure that you start at the TOP of the wheel as shown in the photo to the left. Attach the other end of the wire to the tensioner as shown in the photo above. Finally attach the other end of the tensioner to the X-axis bracket as shown above. Use the tensioning template in the back of the User Manual to set the proper tension in the wire.

INSTALLING THE DRIVE SYSTEM

Using the 1/4-20 X 1" screw, nut, and fender washer, attach the QBOT mounting bracket to the upper carriage handle assembly. Tighten securely.

Congratulations!
You are now ready to make the connections. Follow the instructions in your User Manual starting on page 15.

