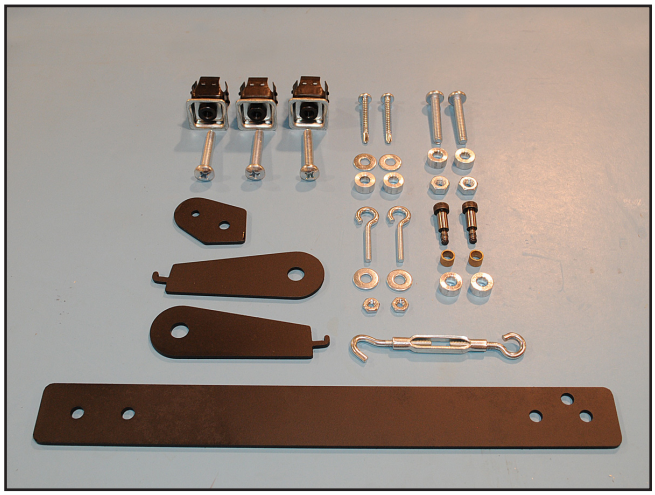
INSTALLING THE DRIVE SYSTEM

HINTERBERG SUMMIT

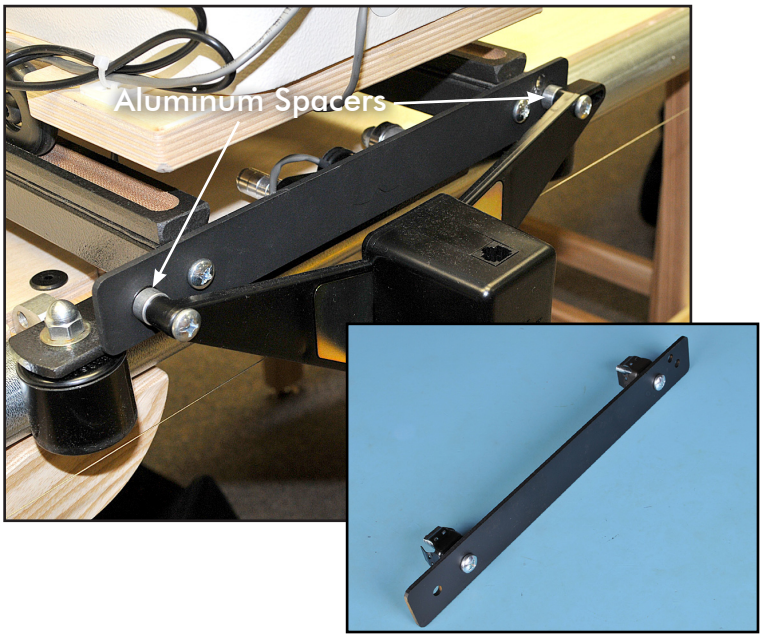
Part No.



The hardware kit for the Hinterberg Summit frame includes:

(5) ¼-20 X 1½" Screws	(6) ¼" Spacers
(2) #8 Eye Screws	(2) 8-32 nuts
(4) Washers	(2) ¼-20 nuts
(3) Tube inserts w/nuts	(1) Y-Axis wire holder
(2) X-Axis wire holders	(1) X-Axis drive bracket
(2) Shoulder Bolts	(2) Bronze Bushings
(2) #10 self-tapping screws	
(1) Tensioner	

First, install the X-axis wire holders on the frame end supports as shown in the pictures below. Remove the screw, then place the wire holder as shown. Re-insert and tighten the screws.



Next, remove the plastic caps from the back end of the lower carriage tubes. Tap the tube nuts provided into the ends of the tubes. The X-Axis drive bracket will attach to these nuts with (2) 1½" long screws. The pictures to the left show the drive bracket attached to the tube nuts and when the assembly is installed on the carriage.

Attach the drive assembly using (2) 1½" long screws, (2) aluminum spacers, (2) washers, and (2) nuts as shown in the picture to the left.

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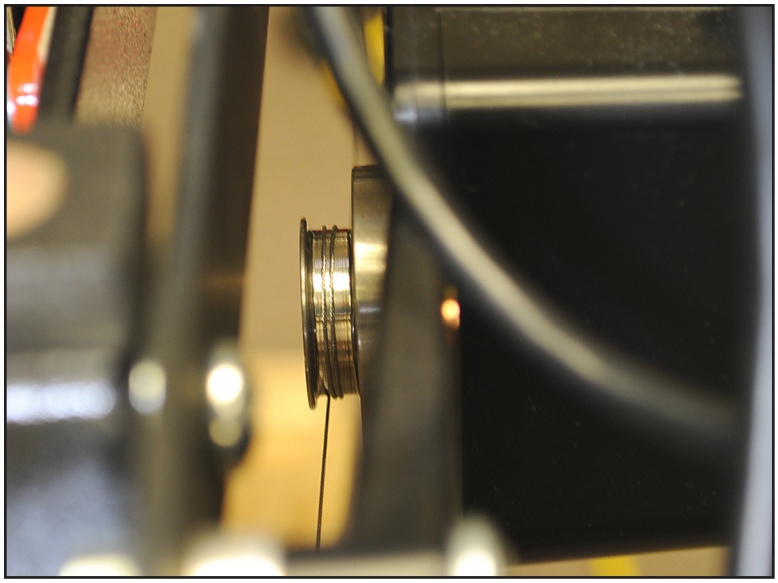
Finalize the installation of the X-Axis drive assembly by installing the drive wire. THE DRIVE WIRE MUST BE WRAPPED SO THAT THE WIRE ENTERS AND EXITS FROM THE BOTTOM OF THE DRIVE WHEEL AS SHOWN IN THE PICTURE.

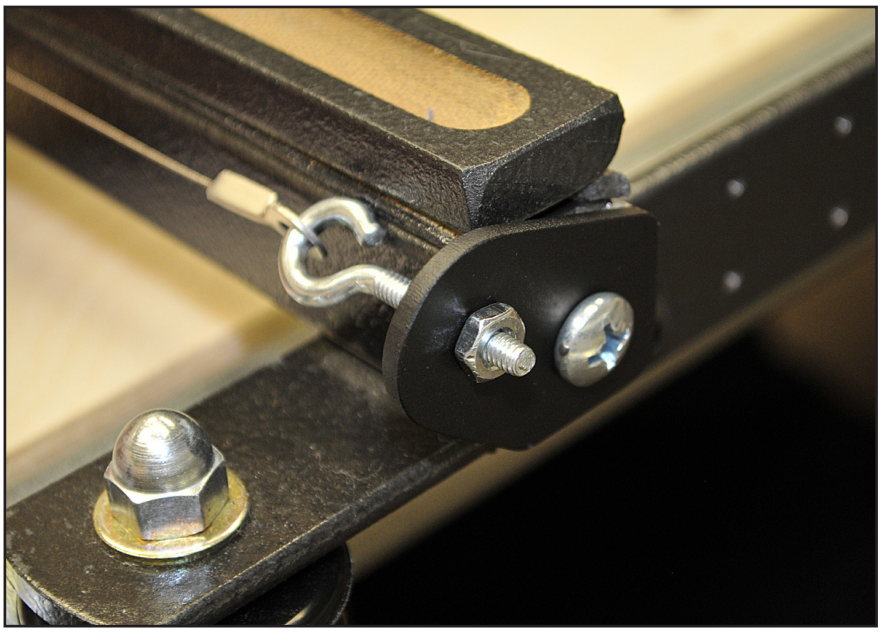


Use the following chart to determine which X-Axis drive wire you should use and how many wraps to make on the drive wheel:

Pole Length	Wire Length	# of Wraps
10′	126.25″	2
8′	102.25″	2
6′	78.25″	2

Apply tension to the drive wire by turning the barrel on the tensioner to remove the slack. Use the tensioning template in your QBOT manual to set the tension in the wire. BE SURE TO TURN THE BARREL OF THE TENSIONER AND NOT THE DRIVE WIRE. TWISTING THE DRIVE WIRE WILL SHORTEN THE LIFE OF THE WIRE.

Next, install the Y-Axis wire holder on the lower carriage as shown in the picture to the right. First insert a tube nut into the front end of the left carriage tube, as viewed from the front then use (1) 1½″ long screw to secure the wire holder in place as shown.



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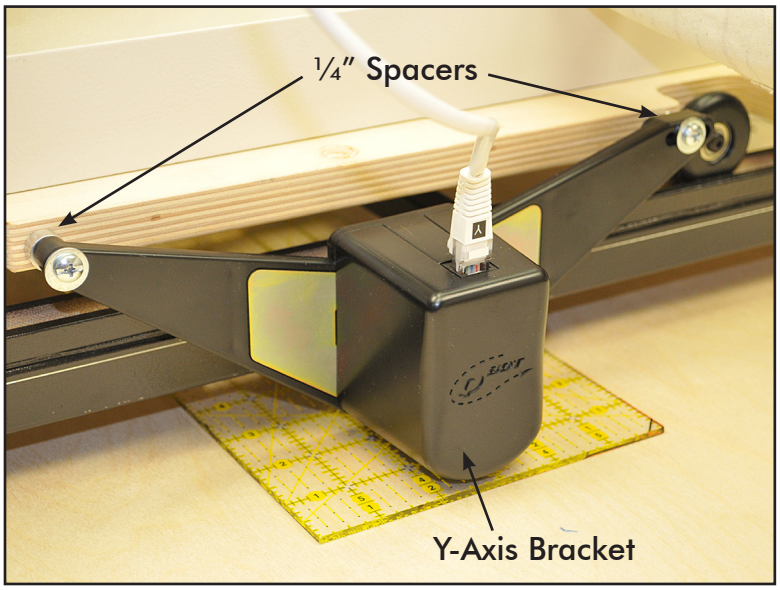
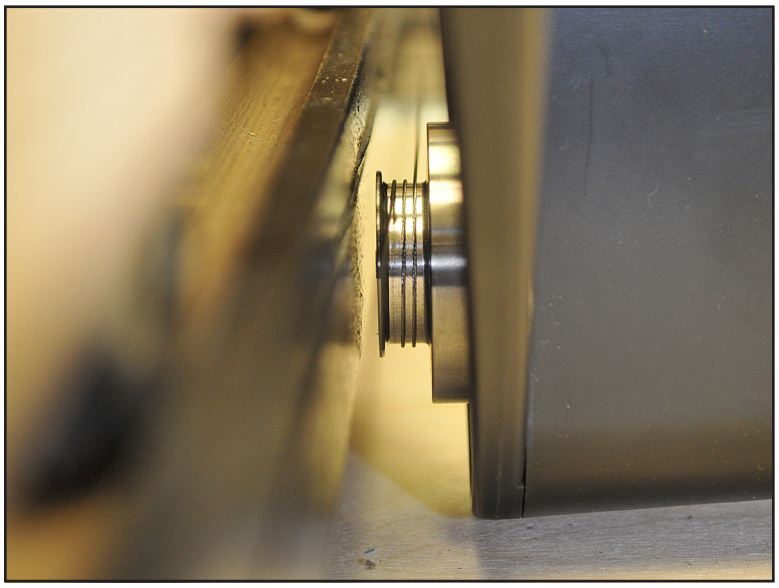


Next, secure the Y-Axis drive assembly to the Y-axis bracket provided using (2) #10 self-tapping screws, (2) ¼" spacers, and (2) washers

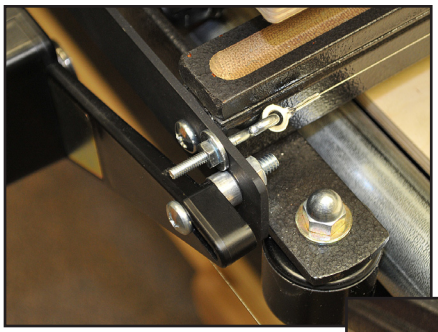
Place a spacer underneath the drive assembly to provide clearance between the bottom of the drive assembly and the quilting table. (Quilting ruler shown as spacer)

Pre-drill the upper carriage using a 7/64" drill bit before using the self-tapping screws to attach the drive assembly to the top carriage.

Use the ¼" thick aluminum spacers to offset the drive assembly from the upper carriage as shown in the photo to the left.

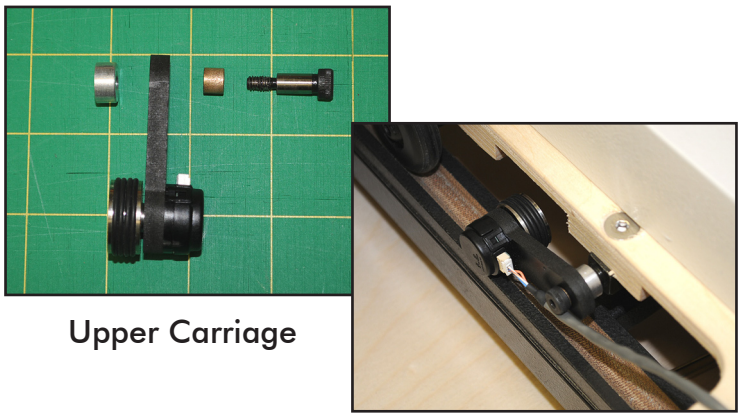


Finalize the installation of the Y-Axis drive assembly by installing the drive wire. THE DRIVE WIRE MUST BE WRAPPED SO THAT THE WIRE ENTERS AND EXITS FROM THE TOP OF THE DRIVE WHEEL AS SHOWN IN THE PICTURE TO THE LEFT.

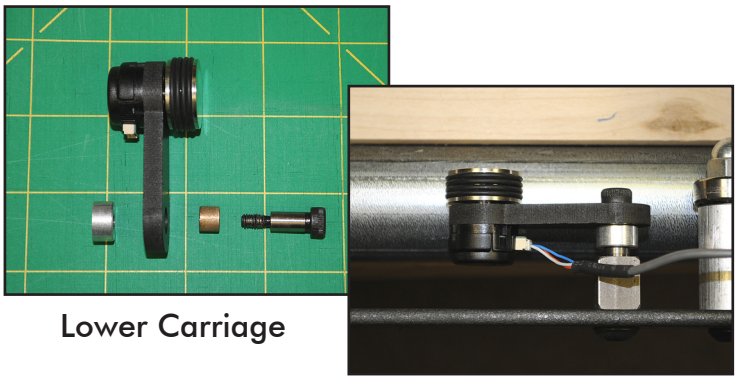


Wrap the drive wire around the drive wheel twice (2X). Tighten the nuts on the ends of the eye screws to apply tension to the wire. Use the tensioning template in the QBOT manual to set the final tension in the wire.

BE SURE TO TURN THE NUTS AND NOT THE EYE SCREW. TWISTING THE DRIVE WIRE WILL SHORTEN THE LIFE OF THE WIRE.



Upper Carriage



Lower Carriage

The final installation step is to install the optical encoders to the carriages. Using the shoulder bolts, bronze bushings and aluminum spacers as shown to the left, install the encoder to the upper and lower carriages as shown in the pictures to the left.

You're almost done. Just a couple of final housekeeping steps before you are ready to quilt. Finish off the installation by making all electrical connections to your sewing machine and Quilter's Cruise Control and the drive assemblies using the wiring harness that came with your QBOT.

If you are using the QBOT with the Indigo sewing machine, you must use the special wiring harness for the drive assembly connections. The special wiring kit has longer cables that work with the larger sewing machine.

Finally, you must make a couple of changes to the parameters in the QBOT. The procedure for changing parameters is shown in the QBOT manual. Using that procedure, change the following parameters:

Parameter Name	Change Value to:
X-Axis Direction	1
Y-Axis Direction	-1
Acceleration	2000

If your QBOT stitches out designs upside down or backwards, recheck the way the drive wires are wrapped around the drive wheels and the X and Y direction parameters.