

Installation of Optical Encoders for Grace/Little Gracie frames

STOP! Read all the instructions and study the pictures before starting.



Step 1:

Starting with the top carriage and using isopropyl alcohol (rubbing alcohol) and a cotton ball, clean the underside of the carriage before bonding the encoder L-bracket (you need only clean the grid highlighted)



Step 2:

Attach the wiring harness. With the orange wire on the bottom, plug the wiring harness into the encoder.



Step 3:

Peel the white backing off the foam tape and affix the L-bracket to the upper carriage inside the grid (highlighted above).

Step 4:

Route the wiring harness. Use the enclosed strain relief pads to route the wire from underneath the upper carriage as shown.

To do this, peel the backing from two of the white plastic strain relief pads and affix them to the inside and back of the upper carriage. Place the wire tie through the holes, capture the wiring harness cord, and pull the wire tie taut around the wiring harness cord. Clip off the excess on the end of the wire tie.



Installation of the upper encoder is complete. Turn the carriage over and ensure that the encoder arm is free and "flops" down.

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Step 5:

Connect the wiring harness to the second encoder.

Step 6:

Repeat the bonding procedure on the lower carriage. Place the encoder as shown in the picture, using the roller wheel and the edge of the carriage to find the correct grid.

Step 7:

Route the wire as shown, positioning the remaining strain relief pads as shown and following the procedure in Step 4.

Step 8:

When complete, place the carriages together and make sure the bottom carriage encoder "flops" down and pivots freely.

Step 9:

Functional Test:

With the carriages back on the frame and before placing your sewing machine on the top carriage, connect the wiring harness to the Quilter's Cruise Control brain. Plug the brain into the wall outlet and turn on the main power switch. Move the carriage front to back rapidly and see that the yellow and red lights illuminate. Repeat going side-to-side. If the lights do not come on when moving the carriages rapidly, check and make sure the encoders are in contact with the appropriate contact surface.

Step 10:

Final assembly should look like the picture to the left.

If you prefer to affix the hardware to your carriage with screws, you should check first with your frame manufacturer regarding its warranty on the carriages. Drilling holes into your carriage may void the manufacturer's warranty. LiTen Up, Inc. and Quilter's Cruise Control are not responsible for voided warranties on quilt frames.

