

When honing the motor does not hone in one revolution of the ballscrew

A few CMC motors have had this homing problem, which was solved by inverting the polarity of two of the encoder signals. To get to these signals you need to remove the back shell from the motor connector at the end that plugs into the control. Hold the large hex and unscrew the retainer that holds the conduit to the connector. You should be able to pull the conduit back enough to get 2-3" of space between the conduit and the connector. Looking at the wire entry side of the connector, you can see the pin numbers molded into the connector housing. There should be a white wire in pin 3, and a green wire in pin 4. There should also be 3 spare wires folded back along the same cable the white and green wires come from. These wires are probably hidden by shrink tubing, which you will need to cut away. If your cable doesn't look like this call me (541-332-7004 - Mike) before going any farther. If you see the wires I'm talking about, cut the white and green wires **as close as possible to the cable jacket** so you have as much as possible sticking out of the connector. Strip 3/16" or so of insulation off each of them. Take the yellow and blue wires that were folded back along the cable and strip a little off each of them and splice the yellow wire to the stub of white wire that is coming out of the connector, and the blue wire to the green stub. Solder the splices if you can, but crimp splices will do if necessary. There may even be enough room for very small wire nuts, but I doubt it. Before re-assembling the connector housing, plug it in to the control and make sure it works.