



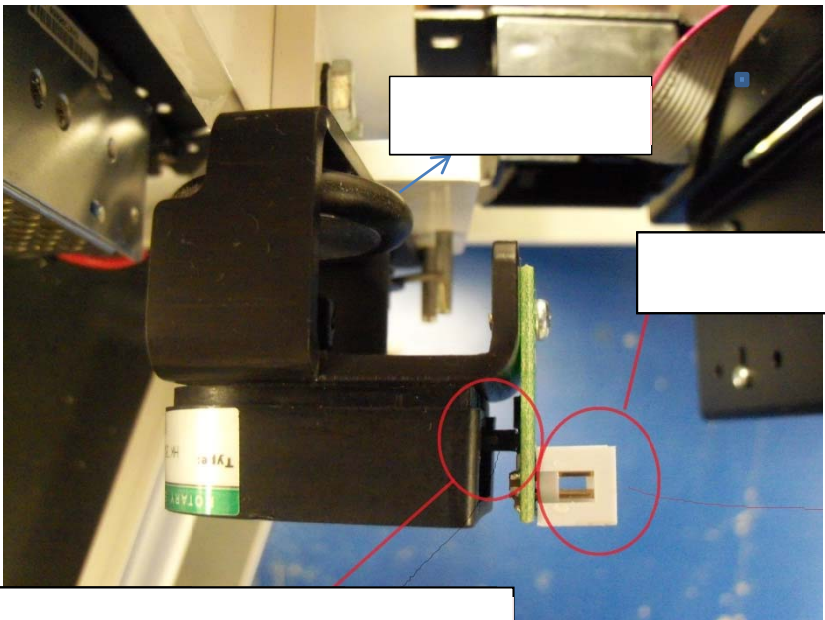
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October 2011

Technical Update

Encoders for the Crown Jewel

ENCODERS FOR CROWN JEWEL



It is important that the encoders are handled gently when setting up the Crown Jewel or transporting the machine. The carriage encoder, marked with an X, located on the back of the carriage should be set onto the track of the frame while holding the encoder away from the track. The connector on the back of the encoder board that plugs into the sensor or the sensor itself can be damaged. The same for the machine encoder, marked with a Y, can be damaged if treated roughly.



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Have the machine unplugged from electric outlet when connecting encoder cable or handle bar cables.

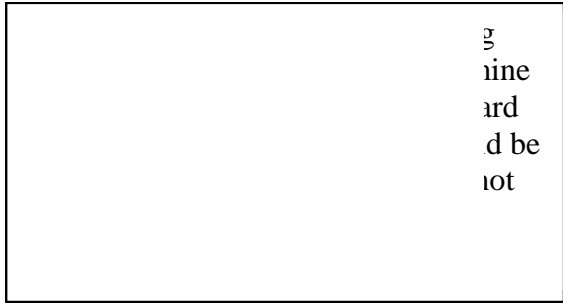
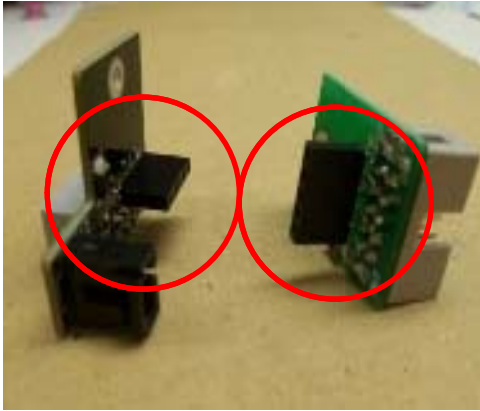
The function of the encoders is to tell the computer in the machine that it is moving and the motor should go. How fast the motor goes depends on the speed the machine is moved and the amount of stitches per inch selected. If the motor does not respond to the encoders moving check the following:

1. Is the rubber wheel on the encoder touching the surface of the carriage track or frame track and rolling when the machine moves? The rear track on the frame should be positioned so the X sensor does not touch the back of the frame, only the rubber wheel should have contact with the track.
2. Check the spring tension on each stitch regulator. If the retaining nut is slightly too tight it can prevent the wheel from properly pressing against the track. Slightly loosen the nut to correct this.
3. Is the rubber wheel free from lint or any other foreign matter that could impede the wheel from turning freely?
4. Is the grey encoder cable connected at each encoder and the machine?
5. Is the encoder cable free of any damage, such as tears in the wire covering? You should never see bare wires showing anywhere on the encoder cable.
6. You can check the function of the encoders in the diagnostics page of the LCD screen of the Crown Jewel. Follow instructions starting on page 24 of the instruction manual included with the machine.

The functions of the machine should be tested with the machine alone, not with Quilt Motion or Pro- Stitcher activated. It is essential that the machine work correctly in manual and regulated mode before using Quilt Motion or the Pro- Stitcher.



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