
Sabre™ Z Encoder Pulse Adjustment

Gerber FastFact # 2016

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Summary: The following explains the procedure for setting the z-axis encoder pulse position on the Sabre Series Router.

SABRE Router Z axis Encoder

Establishing the Z axis encoder pulse position

1. Put a piece of paper (masking) tape vertically on both the Z axis Plate and the Z axis housing two to three inches from the top of its' travel.
2. Power up the unit and press A to orient.
3. When the Z-axis pauses for the first time while orienting, mark both pieces of tape with an accurate line. Once the Z-axis finishes orienting make a second mark on the tape. The space between the two marks should measure between 0.16" to 0.20". If the space between the two marks is within these parameters the Encoder Pulse is properly adjusted. If the space between the two marks does not fall within these parameters see the section below.

To adjust the encoder pulse position

1. Mark a third line on the tape at .18" from the first line.
2. Loosen the Z axis motor pulley clamp.
3. Rotate the motor pulley to move the Z Carriage to line up with the third mark.
4. Re-tighten the motor pulley clamp and return to section one above to verify the adjustment. If necessary, repeat the steps in section two.
5. Replace the motor cover and run a small test job before resuming production work.