

# otor Belt, Pulley & Set Screws Cut Quality & Error Code Troubleshooting

Last Updated: 11/17/14

This document explains how to properly adjust the belt tension of your motor belts. Along with ensuring the pulleys are

aligned and set screws are tight.

NOTE: The photos shown may not be the same orientation as yours, but the idea is the same across multiple models.

# X AXIS (media movement)

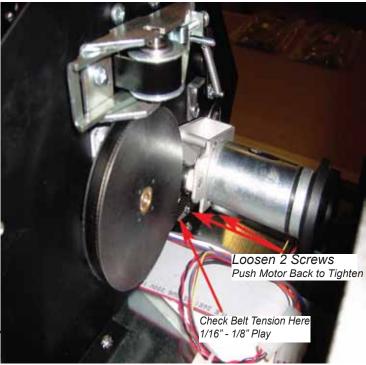
1) Verify the X axis motor belt is properly tensioned with about 1/16" to 1/8" play.

> Loosen 2 phillips screws Push motor away from black pulley to tighten

2) Inspect the teeth of the belt to ensure they are not excessively worn or missing.

> Note: The teeth should have a square profile to them. If they appear "sharp" or worn, it is recommended to replace it

- 3) Using a 5/64" Allen Wrench, verify the black pulley's set screws are tightened. Also, confirm the set screws are on the flats of the grit roller shaft.
- 4) Using a 1/16" Allen Wrench, verify the set screw of the motor's (gold) pinion gear is tightened.
- 5) Confirm the motor belt is aligned along all pulleys.





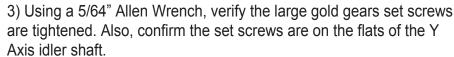




# Y Axis (carriage movement)

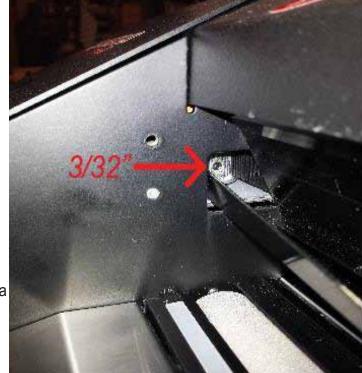
- 1) Verify the Y axis motor belt is properly tensioned with about 1/16" to 1/8" play.
- 2) Inspect the teeth of the belt to ensure they are not excessively worn or missing.

Note: The teeth should have a square profile to them. If they appear "sharp", it is recommended to replace it





- 4) Using a 1/16" Allen Wrench, verify the set screw of the motor's (gold) pinion gear is tightened.
- 5) Confirm the motor belt is aligned along all pulleys.
- 6) Confirm the set screw of the gear shown to the right is tight with a 3/32" Allen Wrench







## LONG Y Axis Motor Belt

- Verify the long Y axis belt that carries the carriage is properly tensioned.
- When the machine is powered on and the carriage goes to the 'home' position, if the long Y belt sags, it needs to be tightened.

Long Y Axis Belt p/n - H19-001 (Length required is dependant on model #)



The photo on the right shows how to determine which belts are needed depending on the diameter of the large black pulley of the X axis. Once the black pulley is measured, this will indicate which set of motor belts are required for your machine.

### Model 830 TM Motor Belt Part #'s:

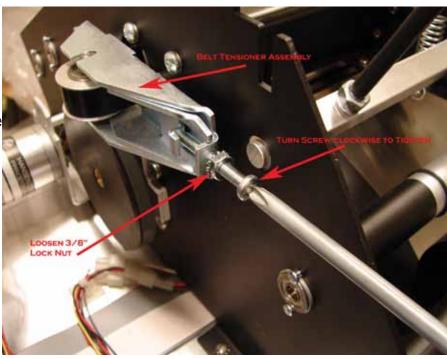
X Axis - H19-010 Y Axis - H19-011

#### Model 315 Motor Belt Part #'s:

X Axis - H19-017 Y Axis - H19-012

If your model # is not listed above, please contact technical support at

http://allendatagraph.com/tech-support/





To place an order, contact our front office at (603) 216-6344 to process the order.



