Adjusting the drum drive belt

Products

- VLF Platesetter
- Trendsetter VLF
- Trendsetter VLF AL
- ThermoFlex Wide I

Background

Use this procedure to adjust the drum drive belt tension and to adjust the belt pulley squareness.

Belt tension is measured by the frequency of vibration of the belt when the belt is tapped on—the handle of a T-handle hex key works well to do this. This vibration frequency is measured using a BRECOflex meter that is pointed at a metal washer or heavy duty paper clip attached to the belt.

If a drum belt has been removed as part of another procedure or needs to be replaced, follow the steps outlined in this document to adjust the belt tension.

Tools required

- BRECOflex meter (or FM96 meter connected to a Fluke 83 multimeter)
- 12 in. combination square
- Metal washer or heavy duty paper clip



Warning: With the protective cover removed, the drum belt is exposed posing a hand entrapment hazard.

Allow the drum to settle before working in the drum belt area and exercise extreme caution to prevent your hand or fingers from being caught between the drum pulley and belt.

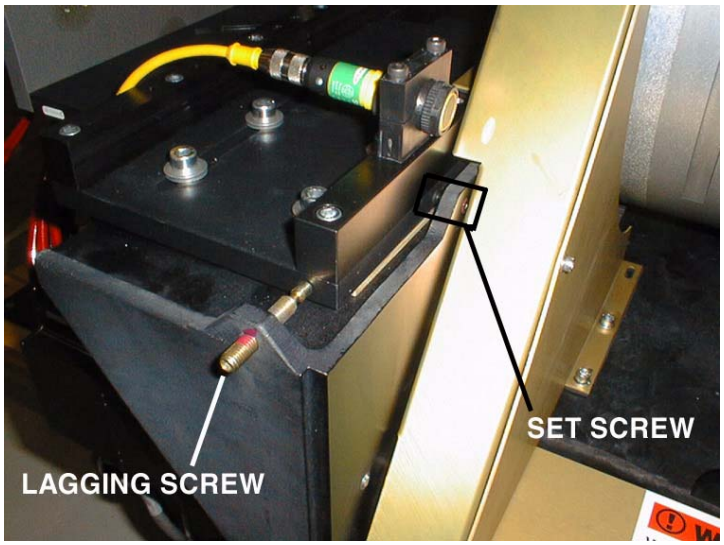
Failure to do so can result in serious injury to your hand or fingers.

Procedure

1. Turn the device power off.
2. Remove any panels to get access to the drum motor and belt.
3. Remove the drum belt cover.
4. Attach a metal washer or paper clip to the drum belt midspan between the two pulleys.
5. Measure the belt tension:
   a. Point the BRECOflex meter sensor at the washer, press the meter button and tap on the belt close to the washer. Take several readings to get an average before adjusting the belt tension.

b. Adjust as necessary to get 41 to 44 Hz, measured with a Brecoflex frequency meter (38,5 to 40.5 Ha measured with a FM96 meter connected to a Fluke 83 multimeter).

6. Square the drive pulley to the drum:
The drive motor mount is mounted under the drive end side plates assembly with four screws. A lagging screw is used to adjust the belt tension and a set screw is used to set the drive pulley and belt square to the axis of the drum.



a. Rotate the drum by hand so that the leading edge clamps are below the leading edge backbone as viewed from the drum side of the machine.

b. Enter drum hold.

c. Adjust the set screw to square the motor pulley to the drum axis, using the LECs as a guide for the 12 in. combination square.

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Date submitted	03 Feb 2005
Last updated	08 Nov 2005