Adjusting the drum belt tension on the Magnus VLF

Products

- Magnus VLF
- Magnus VLF CL
- Magnus VLF MCU

Background

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
- 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. Open the rear hood of the device and remove the rear panel for access to the drum motor and belt.
2. Remove the drum belt cover.
3. Attach a metal washer or paper clip to the drum belt midspan between the two pulleys.

To measure the belt tension, point the BRECOflex meter sensor at the washer, press the meter button and tap on the belt close to the washer. Refer to

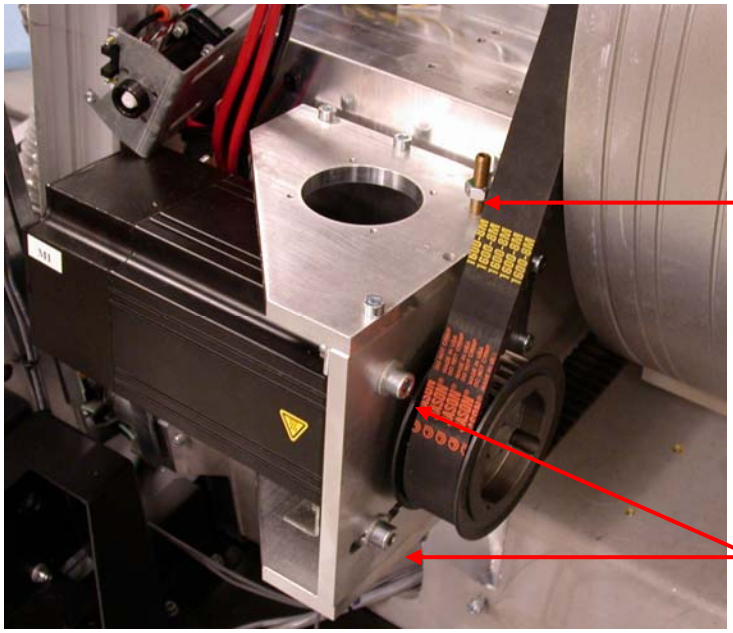
4. Table 1 for the correct measurements.

Table 1: Tension specifications

Drum size	Frequency reading
6383	61 to 64 Hz
5183	47 to 51 Hz

Take several readings to get an average before adjusting the belt tension.

5. If the belt needs adjustment, slightly loosen the four M8 screws that hold the drum motor bracket to the engine casting and adjust the tension screw.



6. Tighten two of the M8 screws and repeat the tension measurement with the BRECOflex meter. Repeat steps 4, 5, and 6 until the measurements are within specifications.
7. Tighten the tension screw locknut and all four the M8 motor bracket mounting screws. Check that the belt tension has not changed.

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