Aligning and Tensioning the Drum Drive V-belt

Product

- Kodak Trendsetter® 400/800
- Kodak Trendsetter NEWS™

Output devices affected All Trendsetters with a V-belt for the drum drive

Background

Trendsetter devices with the drum motor that uses the V-belt and idler require a different procedure for alignment and tensioning from the previous devices with the toothed drum belt.

Time required 1/2 hr

Related Parts

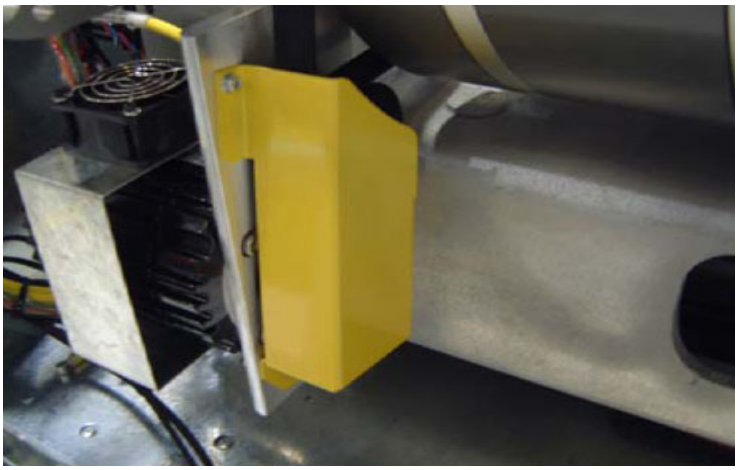
Part Number	Part Name	Quantity
500-02982A	ASSY,MECH,MAIN MOTOR,TSM-V	1
346-00036	BELT,J-SECTION,POLY-V,8 GROOVE,40”	1

Tools required

- BRECOflex® belt tension meter—part number 90-1062 (for testing or adjusting the drum drive belt tension)

Procedure

1. Turn off the Trendsetter power.
2. Open the front bottom door.
3. Remove the yellow safety cover over the belt and pulleys.

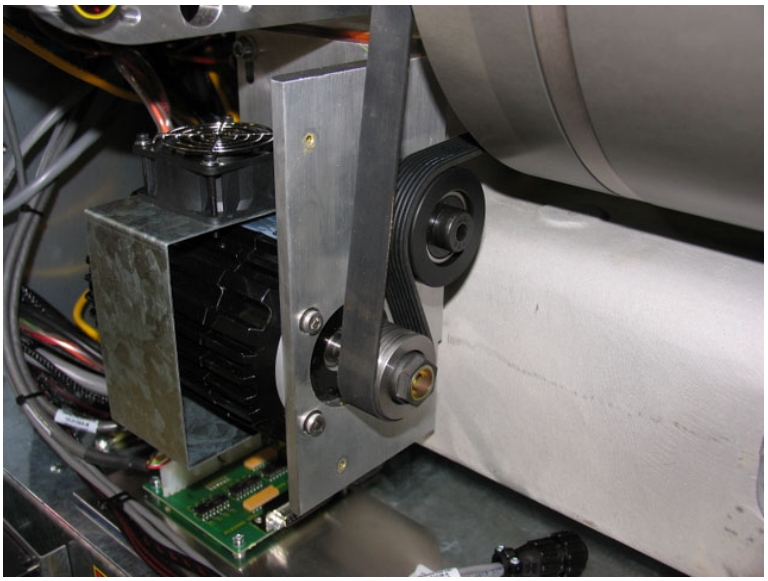


Warning: With the protective cover removed, the drum belt is exposed, posing a hand entrapment hazard.

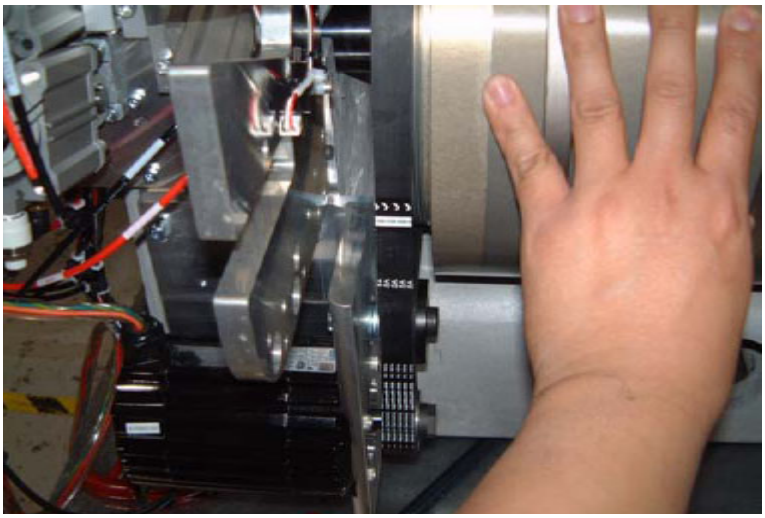
Allow the drum to settle before working in the drum belt area and exercise extreme caution to prevent your hand or fingers from being caught between the drum belt and pulleys.

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

4. Make sure the belt is placed around the pulleys as shown in the following picture.

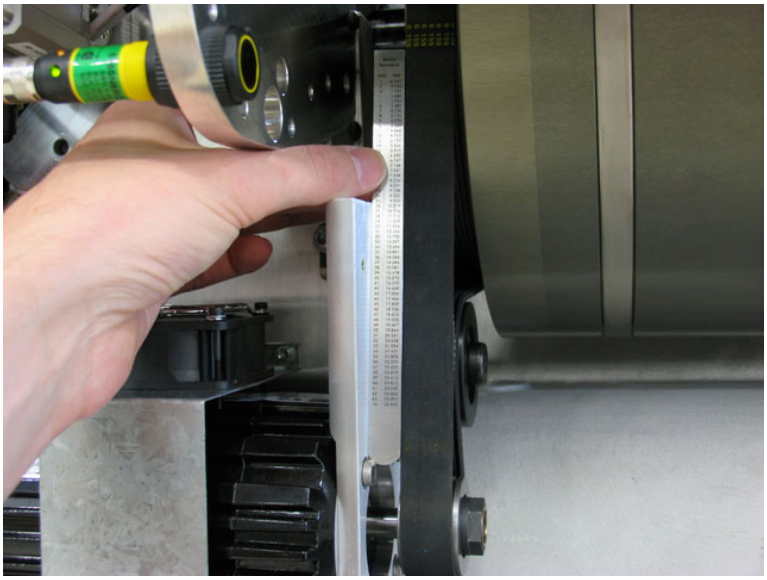


5. Loosen the nut that holds the pulley on the drum motor shaft, so the pulley is free to slide in or out on the shaft.
6. Spin the drum by hand and the drum pulley will self-align.



7. Ensure the motor pulley is aligned with the drum pulley.

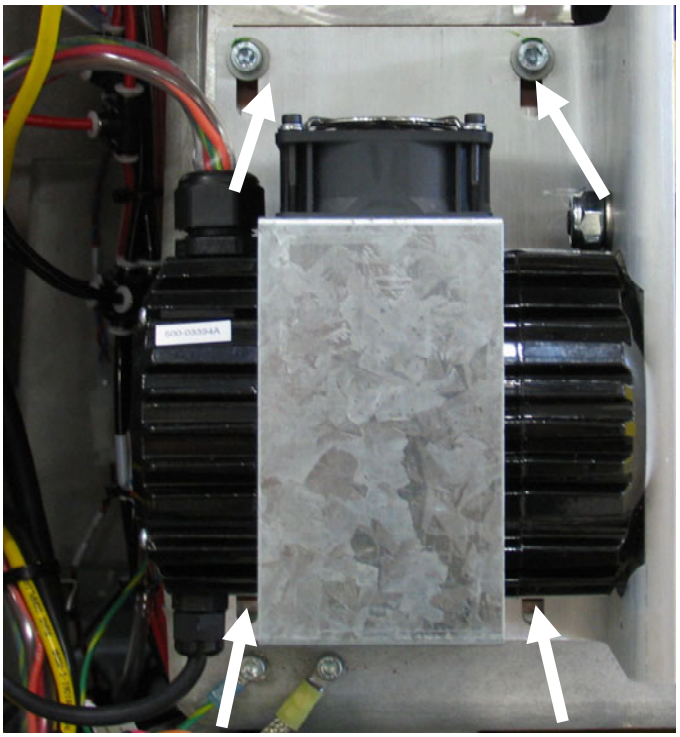
   Place a straight edge against the drum end bell and check to verify that the belt is parallel to the straight edge. If necessary, adjust the position of the motor pulley so that the belt and straight edge are parallel.



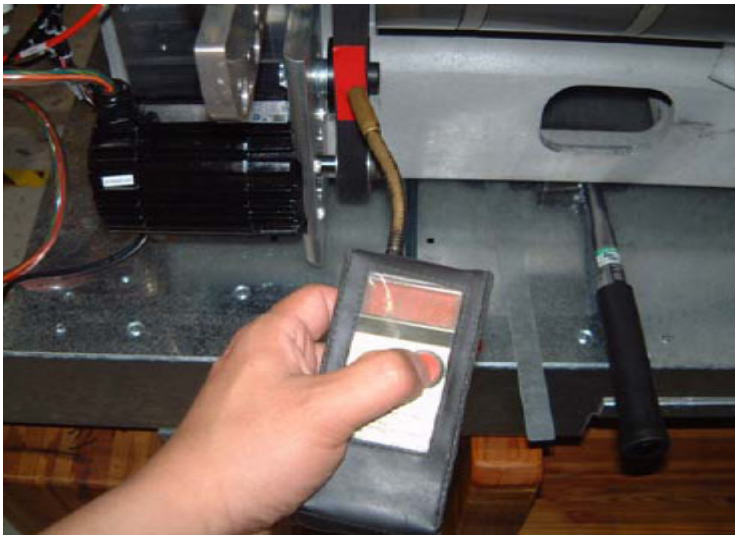
8. Tighten the pulley nut, but do not overtighten. (If you have a torque wrench, tighten the pulley nut to 19.8 N·m.)



9. Loosen the four bolts that secure the motor mount to the engine frame. Slide the motor mount assembly down to tension the drum belt.



10. Hold the sensor of the BRECOflex meter (90-1062) against the belt approximately half way between the drum pulley and the motor pulley.
11. Pluck the belt to check the frequency of vibration of the belt. It must be between 110 to 130 Hz.



Note: If you are using the BRECOflex SM4 belt tension meter (90-1062), you can hold its sensor directly against the belt. However, if you have an older BRECOflex model (SM3, for example), first fasten an M4 flat metal washer to the belt with electrical tape, and then hold the sensor against the washer.

12. Sample the tension multiple times. Rotate the drum ¼ turns and take additional measurements. Move the motor mount assembly to increase or decrease the tension as required.

    Important: When adjusting the drum belt tension, be careful not to skew the entire motor assembly. Even a 1 mm skew will cause significant misalignment and result in excessive belt wear.



13. Secure the four bolts holding the motor mount and recheck the belt tension and alignment.
14. Reinstall the yellow cover.

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