Adjusting and replacing the carriage drive belt

Applies to

- ☑ Trendsetter 3230/3244 (TS3)
- ☑ Trendsetter 3230 (TS4)
- ☑ Trendsetter 400/800 (TS8 – MPE and MCE)

Background

This procedure provides methods for checking the carriage belt tension on various models of Trendsetter with or without a BRECOflex meter.

Tools and parts

- BRECOflex belt tension meter – Part number 90-1062
- Carriage Drive Belt

  TS 400/800 and TS 400/800 II – Part number 54-3095

  TS 3244 – Part number 54-3256

  TS 3230 (TS4) – Part number 54-3095
- Scale with 10lb (4.5Kg) minimum range



WARNING: Failure to follow the safety policies and procedures for field engineers may create a dangerous situation that could result in serious injury as well as damage to the output device.
For more information, see:
http://techplanet.creo.com/output/computer_to_plate/all_ctp/nav/safety.htm

Steps

To adjust the carriage belt tension:

1. Turn off the power to the output device.
2. Access the carriage belt:

   For TS8, TS3230 (TS4):

   - Remove the power box panel
   - Remove the carriage drive access panel on the rear wall of the power box

   For TS3244:

   - Open the top cover
   - Release the fan box and slide it out on the rails
3. Loosen the three cap screws that hold the carriage motor to the mounting bracket enough so that the motor can be moved.
   If you are replacing the belt do so now.
4. With the screws loosened, slide the motor to increase belt tension. Pull the motor with approximately 8lbs of force.
5. Tighten the three cap screws to hold the carriage motor in place.

   With a BRECOflex meter:
6. Measure the carriage belt tension with the BRECOflex meter.

The belt tension reading should be 190-200Hz.
If the reading is outside of the acceptable range go to step 3 and repeat until the belt tension is within range.

Without a BRECOflex meter:

7. Use two large cable ties to create a loop around the stepper motor.



8. Move the loop as close to the mounting flange as possible.



9. Using a small scale pull on the loop until the reading is 8 lbs.

	(3.6Kg) 10. Tighten the screws to lock the motor in place.
Notes	Incorrect belt tension can cause subscan (along the drum) imaging artifacts
See also	FCO CA00752 - Carriage Driver Upgrade for MPE/MCE
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