Checking the encoder

Applies to

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

Background

The encoder is assembled and aligned at the factory. It is a precision instrument and must be handled gently. It is mounted on the drum pin using an encoder mounting adaptor which supports the encoder shaft in a bearing. The encoder shaft is fastened to the drum on threads and fastened to the encoder collar by two set screws.

The encoder must be aligned to the drum in its index position.

Tools and parts

- 2.5 mm hex tool (square head only)
- 3.5 mm hex tool
- 9 volt battery
- Sensor tester jig (90-1112A)
- Encoder index adapter jig (92-0147A)

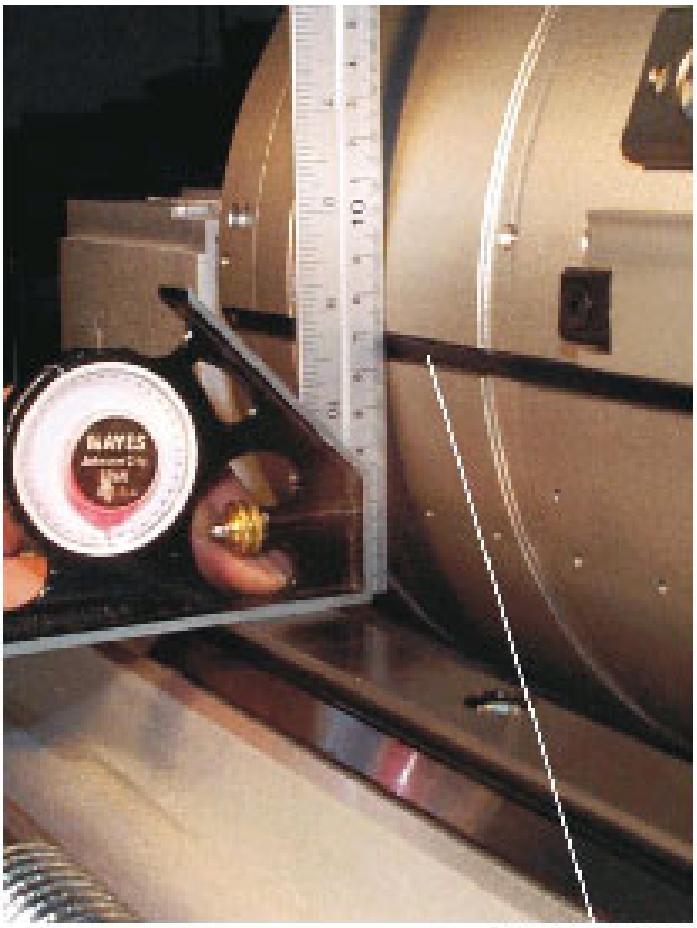


WARNING: Failure to follow the safety policies and procedures for field engineers may create a dangerous situation that could result in serious injury as well as damage to the output device. For more information, see: http://techplanet.creo.com/output/computer_to_plate/all_ctp/nav/safety.htm

Steps

Align the drum to the reference point:

1. Open the top and rear access panels.
2. Remove the power box access panel.
3. Remove the encoder access panel on the rear wall of the power box to access the encoder.
4. Idle the drum.
5. Release the roller and actuators.
6. Position the drum so that the top of the edge detection strip is facing towards the back panel. (68mm vertically above the tracks).



Loge detector sm>

7. Stabilize the drum in this position by typing `rlr on` (MPE) or `roller on` (MCE) at the diagnostic monitor. This will lower the drum roller

Checking the encoder:

1. Attach the following together:
   - 9 volt battery to sensor tester jig (10-3622B)
   - Encoder index adapter jig (92-0147A) to sensor tester jig (reed switch connector
   - Encoder cable from J4 connector on backplane (MPE) or J20 connector on MCE board to encoder index adapter jig (serial connector)
2. Verify the alignment of the encoder. The light on the sensor tester should be ON.

   An ON state means that that encoder is on the index position. No further adjustment is required. Go to next step.

If the sensor tester light is flickering or OFF, the encoder needs to be aligned. Follow the Aligning the Encoder procedure.

If the encoder cannot be aligned, replace it with a new one. Align it in accordance with the Aligning the Encoder procedure.

3. Disconnect the encoder index adapter jig from the encoder cable and reconnect the encoder cable to J4 on the backplane or J20 on the MCE board.
4. Disconnect the battery because leaving the encoder adapter attached to the sensor tester will drain the battery.

Notes Be sure to disconnect the battery from the jig when done because leaving the encoder adapter attached to the sensor tester will drain the battery.

See also

- Aligning the Encoder

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