

Timing Belt Mechanism Trial Run Inspection Guide

Safety First

- Stop the system completely and disconnect power before inspection.
- Never place hands or body near pulleys or belt during operation.

Inspection Checklist (After 5–10 Minutes of Trial Run)

#	Issue	Symptom	Corrective Action
1	Belt Climbing on Flange	Belt shifts and rides up pulley flange	Realign pulleys for parallelism and axial centering
2	Belt Resonance / Vibration	Excessive noise or oscillation	- Adjust initial tension ($\pm 10\%$ of spec) - Reposition idler pulley if needed
3	Tooth Jumping (Ratchet)	Belt teeth skip pulley grooves	- Increase initial tension - If persists: Redesign system (load exceeds belt capacity)
4	Tension Loss	Belt becomes slack during run	- Secure sliding base / motor mount - Re-check tooth meshing and retension

Safety Reminders

- Power off before any adjustment.
- Use tension gauge and alignment tools for accuracy.
- Log inspection results for traceability.

Need Technical Support? Submit:

- Equipment model
- Belt spec (width, pitch, length)
- Load & speed data

Our engineers will provide root cause analysis and optimized settings.

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