




**Field Service Spares Replacement Procedure – EL Belt Kit, XX06RZA & XX09 For Idlers**

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Approval:

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**Revision History**

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A	8795	Initial release	08-05-2011
B	9041	Clerical revisions	10-03-2011
C	9170	Clerical revisions	12-06-2011

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# Field Service Procedure – Replacement Elevation Belt Kit, XX06RZA & XX09 For Idlers

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## 1. Inspections:



**\*CAUTION:** Be extremely careful rotating the pedestal around while your fingers are in this area to prevent pinching or crushing your fingers in the pedestal assembly.

### 1.1. Alignment.

Inspect the alignment of the belt through the motor drive sprocket and the driven sprocket. Misalignment will cause the belt to wear along its edges (refer to pictures below).

### 1.2. Damage.

Inspect the belt for damage. Look for teeth that have de-laminated, or been completely torn off the belt (refer to pictures below).



**Belt edge wear**



**Missing tooth**



**Separating tooth and edge wear**

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## 2. Replacing the Elevation Drive Belt:

### 2.1. Tools.

- 5/64" Allen Wrench/Key
- 6mm Wrench/Spanner
- Tie Wraps/Cable Ties
- Snips/ Cutters
- Loctite 242

### 2.2. Procedure.

Procedure for replacing the Elevation belt for the XX09 & XX06RZA systems, Kevlar belt to take idlers, Sea Tel kit part number: 135351 (belt part number: 123907-147371)..

**\*Note:** If your system is legacy belt drive and the spare has already been used, the system will have to be upgraded to include Kevlar belt, idler and tensioning bolt (Sea Tel kit part number: 132090).



Legacy Elevation Belt System



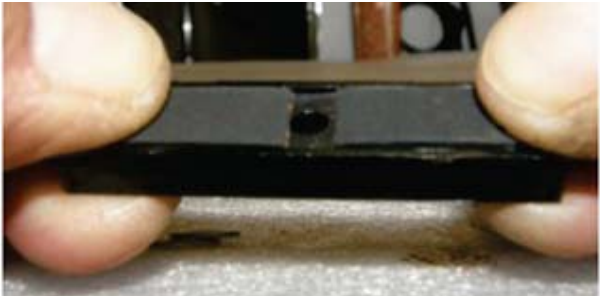



Elevation Belt With Idler

**\*CAUTION:** Power down the pedestal before following this procedure.

1. Loosen the four motor mounting screws using a 5/64" Allen wrench.
2. Loosen the locking nut on the tensioning bolt using a 6mm wrench.
3. If the failed belt was not broken, decouple it from the elevation motor drive sprocket.
4. Cut the 4 cable ties across the top of the elevation driven sprocket and remove the defective belt.
5. Open the belt clamp assembly. Retain the hardware for later re-assembly.
6. Check the new belt. If not already cut, cut the belt between 2 raised teeth using scissors or diagonal cutters. Measure the belt to assure that it is 79.3mm (31.2"), cut off any excess length.



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<p>7. Lay the open ends of the belt, teeth down into the teeth of the lower half of the belt clamp.</p> <p>8. Put the top on the belt clamp assembly.</p>	
<p>9. Install the hardware, removed in step 4 above, in the belt clamp assembly.</p>	
<p>10. Route the belt around the elevation driven sprocket, with the belt clamp assembly about mid way across the top of the drive sprocket, thread it through the idler and couple it onto the drive sprocket of the motor.</p> <p>11. Install cable ties across the top of the elevation driven sprocket as were removed in step 3 above.</p>	
<p>12. Tighten the tensioning bolt and check belt tension by twisting the belt with your fore finger and thumb.</p> <p>13. Increase belt tension until the belt can only be easily twisted just ¼ turn with your fingers.</p> <p>14. Tighten the locking nut on the tensioning bolt.</p>	
<p>15. One at a time, apply Loctite 242 to the 4 motor mounting screws and tighten each to secure the motor.</p>	