

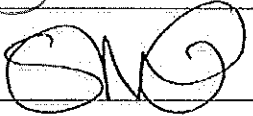


Field Service Spares Replacement Procedure – Drive Belt Kit

Approval:

Approving Authority	Signature	Date
Doc Control:	Ron Chaffee / Signature on file. 	3-26-12
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Revision History

Rev.	ECO	Description of Change	Date
A	8796	Initial release	08-05-2011
B	9041	Clerical revisions	10-18-2011
C	9170	Clerical revisions	12-06-2011
D	9473	Clerical revisions	02-28-2012

Field Service Procedure – Replacement Drive Belt Kit

1. Brief Summary:

Troubleshooting document for inspecting, and replacing a damaged drive belt as well as tensioning.

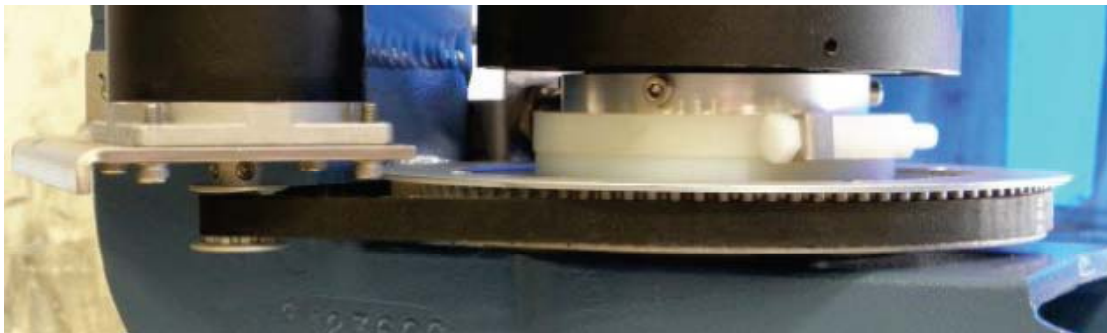
2. Inspections:



***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.

2.1. Alignment.

Inspect the alignment of the belt through the motor drive sprocket and the drive sprocket. Misalignment will cause the belt to wear along its edges (refer to pictures below). Rotate the pedestal by hand and verify the belt runs freely, with no binding or catching on the sprockets.



2.2. 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

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Missing tooth



Separating tooth and edge wear

3. Universal Drive Belt Replacement Procedure:

3.1. Tools.

- 5/64" Allen Wrench/Key
- Snips/ Cutters
- Loctite 242
- ***Note:** Tools may vary depending on antenna model.

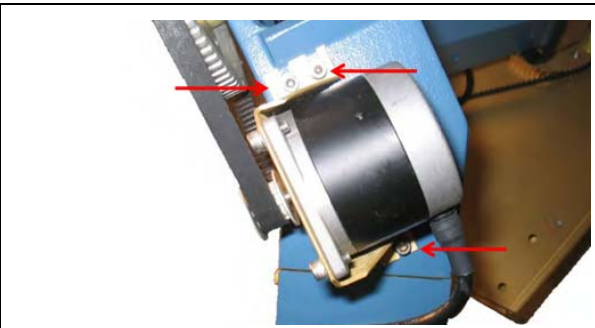
3.2. Procedure.

Universal procedure for replacing a drive belt on a Sea Tel antenna, exact application may vary slightly depending on antenna model.

***Caution:** Power down the pedestal before following this procedure.

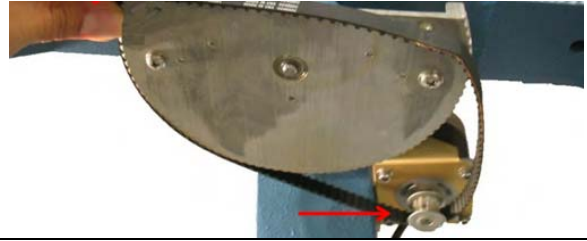
1. Loosen the four screws securing the motor bracket to the pedestal, or the motor securing screws, depending on which will allow you to slide the motor assembly closer to the main drive sprocket.
2. Complete removal of the hardware is not required for belt removal.

3. Remove any cable ties used to secure the belt to the main drive sprocket (if applicable).

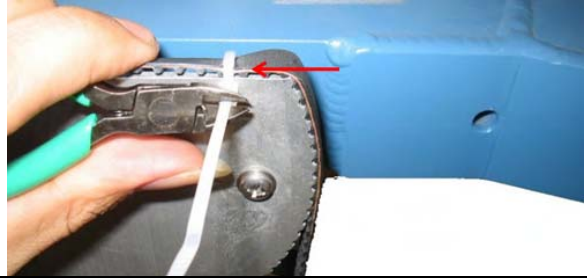


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4. Install the replacement belt around the motor sprocket and then the main drive sprocket. The motor assembly should be moved as close to the main drive sprocket as possible to allow clearance of the belt and prevent stressing it.



5. Align belt flush to the main drive sprockets and secure with cable ties (if applicable).



6. Tension the belt by pulling the motor assembly away from the main drive sprocket and tighten two of the screws.



7. Check the belt tension by rotating the belt between your thumb and forefinger at the central point between the two sprockets.

8. You should be able to rotate the belt 90 degrees easily at which point it should tighten up. If you can easily rotate the belt past 90 degrees the belt is loose, if it's too rigid to rotate to 90 degrees the tension is too tight. Readjust if necessary.

9. Once the belt tension is correct remove the two loose screws and refit with Loctite 242. Then repeat for the first two screws.



10. Rotate the axis from left to right and verify the belt doesn't rub against the pedestal.

***Note:** Incorrect belt travel is most frequently caused by incorrect sprocket placement on the motor shaft.