



## Instructions - Serpentine Belt And Pulley Conversion Kit

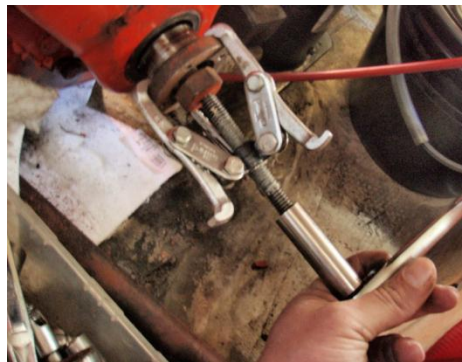
### Westerbeke and Perkins 4.107/4.108 – Pulley Conversion Kit

**Electromaax's serpentine** conversion kits are designed and manufactured to replace the conventional narrow single-V belt with a serpentine 10-rib belt, increasing performance and reducing vibration.

**Boat owners** are now no longer limited to upgrading their old alternator to a 100amp alternator on a single V pulley with this kit you can now increase the output up to 190amps if required.

Visit our website [www.electromaax.com](http://www.electromaax.com) and see our installation video that shows how easy this installation is for the average cruiser: Video link below for your convenience.  
[www.electromaax.com/engines/marine-alternator-marine-regulator-installation-video/](http://www.electromaax.com/engines/marine-alternator-marine-regulator-installation-video/)

#### Step by Step Instructions:



1. Crankshaft Pulley – Use strap wrench or chain grips to lock pulley in place while loosening the center bolt. It is a thin wall socket (1 1/8"?). After loosening center bolt, remove the four small bolts and then use a puller to remove the pulley
2. Once the pulley is off, reinstall the center bolt and use the puller to remove the crankshaft adapter plate.
3. Replace lip seal with new seal included in the Electromaax Kit.



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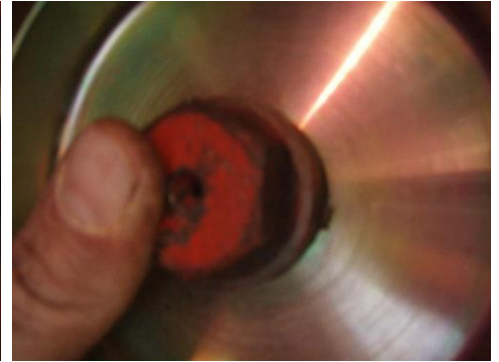
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4. Grease the shaft, inside of the pulley and the lip seal. Install the new crank pulley



5. You will need to reuse the washer from the original pulley so that your bolt can hold the new pulley in place better.



6. New Pulley, washer and bolt



7. Even after it has been pressed on and tightened down, you will have a 1/4" space from the end of the shaft to the face of the pulley. (a note on chain grips like the one wrapped around the pulley here.. Use a piece of leather or something similar to wrap the pulley first so that the ribs of the pulley do not get dinged up.)



8. Crankshaft pulley installed



9. Remove Old Water Pump



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11. Old and new water pumps side by side. The old water pump has a plate that you need to take off and installed on the new water pump. It is about 1/16" This did not affect the operation



10. Once the old water pump has been removed, the surface needs to be cleaned well.



12. Clean > Clean > Clean



13. Use the new gaskets and hi temp RTV silicon sealer supplied in the Electromaax kit to install the new water pump



14. New water pump installed



15. Remove the old alternator

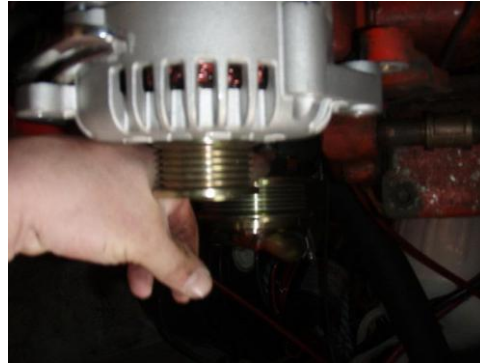


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16. Using new mounting bolt and spacer bushing supplied with the Aquamaax alternator



17. Belt Alignment is why the spacer bushing is necessary



18. After installing the alternator with the mounting spacer, you will need to use the other tensioning bracket spacer and bolt provided to tighten the belt



19. Finished Assembled Unit