



Instructions – Yanmar 6LP Series Alternator Bracket and Belt Tensioner Kit

To install a super high-output alternator, like one of our GenMAAX units, on a Yanmar 6LP Series engine ElectroMaax now offers an alternator bracket and belt tensioner kit. Recommended for alternators with outputs exceeding 160 amps to provide proper mounting and compatibility with your existing belt system and engine cover.

Visit our website www.electromaax.com and see our installation video that shows how easy this installation is for the average cruiser:

Please Note: Always follow Manufactures torque sequence and never exceed maximum fastener torque using a calibrated device

The Yanmar 6LP Series kit includes one alternator bracket and one belt tensioner assembly:



ALTERNATOR BRACKET



BELT TENSIONER ASSEMBLY

Installation Instructions:

1. Remove the front engine cover to gain access to the belt system and the front of the engine.
2. Remove the two engine cover mounts (standoffs) from the engine.



Keep the longer of the two handy as it will be reused to secure the front engine cover later on.

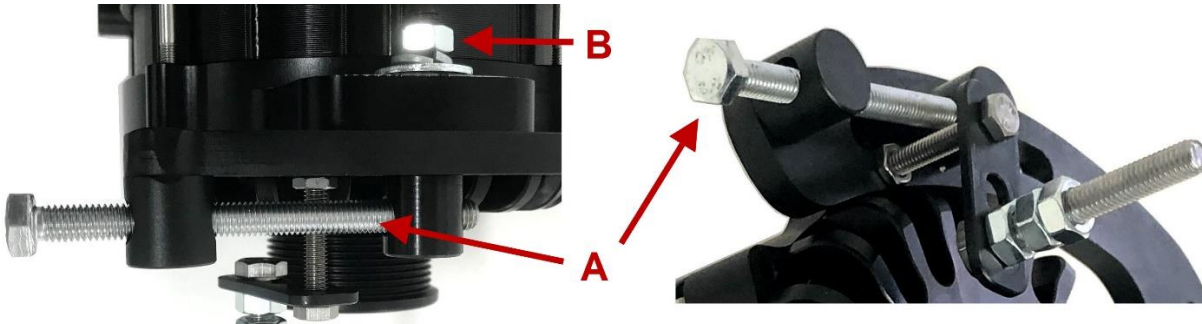
3. Loosen the tension on your belt and remove the belt from the alternator pulley
4. Remove the alternator and then the alternator tension arm bracket from the engine. The alternator tension arm bracket is attached to the engine by two bolts. Please label and keep these two bolts handy as they will be reused to secure the new belt tensioner assembly to the engine.
5. Remove the alternator bracket (mount). The alternator bracket is attached to the engine by two bolts. Please label and keep these two bolts handy as they will be reused when installing the new alternator bracket to the engine.
6. With both the alternator tension arm bracket and alternator mount bracket removed please inspect the engine surfaces behind the brackets to ensure the surface is clean and flat. Any loose paint, rust or other debris should be removed and the surface cleaned. Also, you should inspect the bolt holes in the engine for debris and clean them if necessary prior to proceeding with the installation.
7. Install the new alternator bracket onto the engine using the two mount bracket bolts removed earlier. The bolts should be torqued to Yanmar's specification.
8. Install the new belt tensioner assembly onto the engine using the two arm bracket bolts removed earlier. Torque the bolts according to Yanmar's specification.



9. Install your new saddle mount alternator by securing it to the alternator mount bracket using the hardware provided with the kit as shown to the right without fully tightening the nut



10. Secure the top of the alternator to belt tensioner assembly as illustrated below without fully tightening the bolts.



11. Install the belt over the alternator pulley and using the adjustment provided by the belt tensioner assembly start to set the tension on the belt. Tightening the tension adjustment bolt (item A shown above) will apply tension to the belt. Once the desired tension is achieved tighten the tensioning pin assembly nut (item B shown above) and then install and tighten the locking nut provided on the tension adjustment bolt.

12. Now go back and tighten/torque the alternator saddle mount bolt.

13. To reinstall the front engine cover install the longer standoff removed in step 2 into the belt tensioner arm as shown to the right

14. The shorter cover mount is replaced by a threaded stud coming off the belt tensioner arm. With the adjustment points hand tightened align the stud with the hole in the cover. After the stud is in the proper alignment with the cover tighten all the adjustment points/hardware.



15. Reinstall the front engine cover using the nuts removed during step 1.