

ALTERNATOR OFFSHORE PARTS KIT



BALMAR®

GENERAL INSTRUCTIONS

This kit should be installed by a qualified marine/automotive alternator expert. While the parts may appear to be the same as standard automotive components, and many are exchangeable in size, the characteristics are special to our high output marine designs.

Should you have to attempt the repair yourself, follow the steps below.

1. Remove alternator and place on bench/work area.
2. Remove pulley with a 15/16" socket, preferably attached to an impact wrench. If no impact wrench is available, use a 15/16" socket, hold socket with vice grip, and insert 5/16" Allen wrench through the hole in the socket and into the rotor. Nut is torqued on firmly, so substantial force may be required.
3. Remove the four cap socket bolts with a 5/32" Allen wrench.
4. Carefully remove the alternator's faceplate, leaving the stator with the rear housing.
5. To remove the bearing, first remove the rotor from the faceplate, then unscrew the three retaining screws and remove the retaining plate holding the bearing in place.
6. Tap out the bearing and press in the new one. Replace the retaining plate and replace rotor shaft.
7. The brush springs are probably hanging out now so do one of the following:
 - a. Put the spring back in place, insert the brush, and slip a toothpick or small wire through the rear of the case to hold the brush while you slide the rotor in place, or:
 - b. Install the new brush holder and pull the pin after the rotor is in place. Care must be taken to prevent any foreign material from entering the rear bearing.
8. Diodes normally do not need replacement but, when required, existing diodes should be removed and new diodes should be pressed into place. If alternator is dual output, use replacement diodes as shipped. If single output, clip long diode strap and install remaining diodes. Be sure to observe polarity of diodes being replaced and new diodes being installed. Diodes with red writing are positive; with black writing are negative.
9. Reassemble alternator.

The above process has been presented in simplified form and assumes a fair degree of electro-mechanical understanding, plus access to the basic tools required to complete the operation.

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