



### **RZR ZRP Alternator Kit**

- Note:
  - You will need to purchase a service manual from Polaris to complete this install or you will need to take it to a certified dealership. Removing and reinstalling the engine cover and sensors is fairly precise and should not be attempted without the service manual, proper tools, and adequate mechanical know-how.
  - This kit was designed and intended for racing purposes and thus carries no warranty. (Except for the alternator itself which has a 1-year warranty from Race Proven) Slight modification to these instructions maybe needed for each specific application.
  - Due to chassis variations custom fitting or fabrication may be required to fit this Alternator Kit to your specific application.
  - The battery that the alternator is connected to must be charged to at least 12.6 V before the alternator is connected. If the battery charge is below 12.6 V the alternator will not power up.
  - Green wire goes to a 12v ignition lit wire (non-constant voltage. e.g. not to the battery). The Yellow wire is for an alternator failure light. Which is not included and not required for use. Clip and cap this wire if not in use.
  - Power wire is not included. 4G wire is recommended to run from the alternator to the battery.

1. All bolts on the cover come loose from ZRP and need to be torqued except for the two nuts holding on the two pulleys which have been torqued from the factory.
2. Consult the service manual to remove and install the stock engine mag cover.
3. Once the stock cover is removed, transfer the stator and all sensors and plugs from the stock cover to the ZRP billet engine mag cover.
4. Remove stock crank/flywheel bolt & washer. Install new ZRP Crank bolt (Do not reuse washer). Use blue Loctite and torque to 100ft-lbs, loosen the bolt and re-torque to 133 ft-lbs. Double check this torque spec for your specific model year and engine.
5. Remove pulley bearing pack and alternator mounting arms from mag cover before installing. Loosely mount mag cover using 3 bolts to hand tight, insert bearing pack into the cover and align bolt pattern. Tighten bearing pack bolts to mag cover then finish installing mag cover bolts.
6. Tighten Belt and torque bolts as shown below. Use blue Loctite on all bolted joints associated with the alternator. Torque with an appropriately sized and high-quality torque wrench.
  - a. Bearing Pack Bolts – 6ft-lbs
  - b. Belt Cover Bolts – 10ft-lbs
  - c. Alternator bracket bolts – 35ft-lbs
  - d. Alternator bolts- 15-20ft-lbs
7. Make sure all hoses are secure and away from sharp edges.
8. Check alternator belt tension after the first hour of use.

