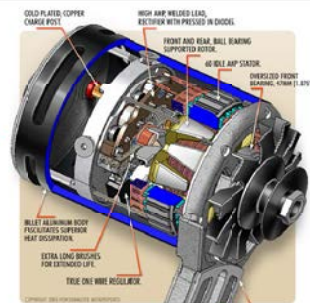




# INSTALLATION INSTRUCTIONS

## 6-Volt Positive Ground



**Tech Dept: (630) 849-7754**  
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The Alternator that looks like a Generator



Part Numbers  
 82016, 82026,  
 82096, 82106, 282016,  
 282026, 282096,  
 282106



**System Voltage: WARNING!**

The PowerGEN part #'s (listed above) are for use with **6-Volt Positive Ground systems ONLY**. If used with other systems, damage to the alternator and/or electrical system can occur.

**Charge Wire:**

6-volt systems require larger gauge wiring than 12-volt systems. Connect a #8 charge wire from the output post on PowerGEN to Negative post on battery or to battery side (neg) of starter solenoid. Do not overtighten the output post connection.

**Grounding:**

Good grounding is essential. PowerGEN's require a ground wire from one of the rear cover bolts to the engine.



**Original external regulators:**

This is a "one-wire" alternator. Only a charge wire and a good ground path are required. The original external regulator and original generator wiring is not needed.

**Belt sizes:**

**Early Ford** applications use a 5/8" wide v-belt. If your application has the later 3/8" wide belt and your PowerGEN came with a 5/8" pulley, you will need pulley #178 for black or #179 for polished. If you need 1/2" wide pulley order #188 black, or #189 for polished

**Mounting, Belt Tension and Alignment:**

PowerGEN's mounting, as well as most dimensions, are the same as the original generator, with the exception of a slightly larger body diameter. Good belt alignment and rigid mounting are essential to eliminate belt slippage and assure long PowerGEN life. Alternators require more belt tension than generators. Proper belt tension is required to prevent slipping. 1/2" deflection, using a straight edge, is optimal

**Pulley ratio:**

To achieve sufficient output at idle, at least a 2:1 pulley ratio is needed. For maximum output at idle, a 3:1 pulley ratio is required. **WARNING! DO NOT mount radiator fans on PowerGEN. When using these pulley ratio's, there is a DANGER of the fan blades over spinning and coming apart.**

**PowerGEN part #'s 82026 and 282026:**

These units have a slot to allow variable belt alignment during installation. Use care, to prevent cosmetic damage, when installing and positioning PowerGEN body to mount. Do not over tighten strap bolt. The body of the PowerGEN is 1/4" larger than generator and will not work with other mounts, unless they are modified to accept larger diameter body.



**Be sure battery is fully charged before starting**

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