

## HOW TO READ THE CROSS REFERENCE CHART: GENERATOR CONTROLLER UNITS (GCU)

Photo	System	Volt	Amp	Generator	Engine	Benefits / Features	Approval	Replacement For	Aircraft Eligibility	Zeftronics P/N	Vendor P/N
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Chart is read from Left to Right following the direction of the arrow

NEED MORE ASSISTANCE? VIEW THE GENERATOR QUESTION SECTION!

<b>Photo</b>	A visual representation of the Zeftronics product. Do not base a cross reference solely on a photo.										
<b>System</b>	<p>The Aircraft System has either an Alternator or Generator.</p> <p>Voltage Regulators (VR) or Control Units are designed for keeping the Generator's or Alternator's output voltage at a fixed level and with other functions.</p> <p>One cannot install a Generator Controller Unit (GCU) in an Alternator System or an Alternator Controller Unit (ACU) in a Generator System.</p>										
<b>Volt</b>	<p>The Aircraft System is either 12 volt or 24 volt. Voltage is expressed as volt, or simply as the letter "V".</p> <p>The GCU is 14V or 28V. The ACU is voltage is set at 14V for the 12V system and 28V for the 24V system in order to keep the battery charged.</p>										
<b>Amp</b>	<p>Expressed as Amp, Amps, or as the letter "A", this is the measure of current flowing through a device or circuit, as well as, how much current flows from a generator.</p> <p>Amperage is used in the Generator (GEN) cross-reference to signify the unique Current Limit (CL) set point of GCU. The CL set point is the maximum current the CL the GCU will allow the generator to produce.</p>										
<b>Generator</b>	Generators have two types: Type A or Type B. Most common Delco-Remy Generators are Type A, while the Bendix / Eclipse Generators and Lear Siegler are Type B.										
<b>Engine</b>	<p>Determine if the aircraft system is a Single Engine (SE) or Twin Engine (ME)</p> <p>Zeftronics GCUs are for Single or Twin generator engine aircraft systems.</p> <p>The Aircraft System voltage is not an indication of SE or ME system because an aircraft can have a 12V or 24V SE or ME system.</p> <p>In a ME systems, the customer should purchase two (2) of the same units.</p>										
<b>Benefits / Features</b>	<p>A bulleted list of some of the key product features.</p> <p>A list of complete features is in the product information. This section is useful when customers are seeking specific features in the unit, e.g. Reverse Current Protection</p>										
<b>Approval</b>	<p>Determines the type of approval required to install a Zeftronics GCU in an aircraft. The three most common approvals are FAA-PMA, FAA-STC, and Field Approval</p> <p>Straight FAA-PMA approval requires only a logbook entry. Each unit has the Product Eligibility Catalog (PEC) included with it.</p> <p>FAA-STC FAA-PMA approval requires form 337. Each unit has a copy of the STC Certificate included with it.</p> <p>Field Approvals require coordination with the customer's local FSDO (Flight Standards District Office), IA (Inspection Authorization certified mechanic) or A&amp;P.</p>										
<b>Replacement For (OEM P/N)</b>	<p>Determine the OEM (Original Equipment Manufacturer – Aircraft Manufacturer) part that is either installed in the aircraft or identified in the parts or service manual.</p> <p>For Generator cross reference, the System Volt, Generator amperage (rated current) &amp; Engine type, Aircraft Eligibility and the OEM Part Number are necessary.</p>										
<b>Aircraft Eligibility</b>	<p>Determine if the Zeftronics product is approved for a particular Aircraft</p> <p>To complete the cross-reference, confirm the accuracy of the Aircraft Make/Model.</p>										
<b>Zeftronics P/N</b>	The Zeftronics part number for the unit that the customer needs.										
<b>Vendor P/N</b>	The Vendor part number that corresponds to the Zeftronics part number										