

## Re: alternator circuit question

**Source:** <http://sci.tech-archive.net/Archive/sci.electronics.misc/2004-12/0462.html>

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**From:** Jim Thompson (*thegreatone\_at\_example.com*)

**Date:** 12/22/04

Date: Tue, 21 Dec 2004 18:08:26 -0700

Jon, Surf back a few weeks, this problem has been addressed recently.

On Wed, 22 Dec 2004 00:33:04 GMT, "Jon G." <jon8338@peoplepc.com> wrote:

>This idea of installing an external voltage regulator to bypass  
>a faulty computer, doesn't work. I put one on and it charged at  
>14 volts for about a day, then it jumped to 18 volts. I tried a  
>different brand voltage regulator, and it did the same. The  
>battery is boiling and smells like sulfur, the high beams went  
>out, and I'm in the hole for 2 voltage regulators that work like  
>junk.

>

>I have a 7 watt 1.2 ohm ceramic resistor out of a TV set. It  
>can only handle 2 amps. If I put it in series between the  
>regulator and the alternator field, it should drop the voltage  
>to the field by 3 volts. However, I think I need a heavier duty  
>resistor.

>

>Jon

>

>Jon G. wrote:

>

>> I have a 91 Plymouth Acclaim, and the alternator doesn't charge the  
>> battery. I took the alternator out and had it tested, and there's  
>> nothing wrong with it. I put a new battery in it, but it still won't  
>> charge. I checked the fuseable link from the alternator to the battery,  
>> and there is continuity. Therefore, it must be the computer.

>>

>> there are 4 connections on the alternator

>>

>> L1: direct to battery, positive

>> L2: direct to battery, negative

>> c1: small wire, logic, to computer, activates diode

>> c2: small wire, logic, to computer, also battery ground.

>>

>> I want to activate the alternator continuously and put on an external  
>> voltage regulator.

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>>  
>> *What must the voltage (and current), to the logic inputs c1 & c2 be to*  
>> *do so?*  
>>  
>> *I have in mind to run a potentiometer between L1 and c1, and adjust it*  
>> *until the alternator kicks on.*  
>>  
>> *The schematic shows that c1 goes to the coil of a transformer in the*  
>> *alternator, which then goes to one of the diodes (an SCR?)*

...Jim Thompson

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| James E.Thompson, P.E. | mens |  
| Analog Innovations, Inc. | et |  
| Analog/Mixed-Signal ASIC's and Discrete Systems | manus |  
| Phoenix, Arizona Voice:(480)460-2350 | |  
| E-mail Address at Website Fax:(480)460-2142 | Brass Rat |  
| http://www.analog-innovations.com | 1962 |
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I love to cook with wine. Sometimes I even put it in the food.