Subject: PC5032 semiconductor issues
Posted by natedriver on Sun, 10 Jan 2016 19:54:58 GMT
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I have a pc5032 power amp board that I have some questions about some of the semiconductors have been replaced and i am wondering if these are suitable substitutions.
I am going to list the questionable components by what the schematic says should be in there and what i have.

Q1 se4002/2222a
Q4 38735/nte128
Q7 2N3567/nte128
Q8 2N3638/nte159
Q9 se4002/2223a
Q11 2N3567/nte128
Q13 se4002/2222a

I am aware that some of these semiconductors can be replaced with nte123 but all I have is nte123ap's will that be acceptable?

I posted in a previous thread in the repair forum that I have about 20 volts + and - going to the preamp and was wondering if any of these mismatches could be contributing to my voltage issues.

Thanks
Nate

Subject: Re: PC5032 semiconductor issues
Posted by chicagobill on Mon, 11 Jan 2016 02:19:24 GMT
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The replacements that you listed should be fine, as far as I can tell. The NTE123AP are the plastic cased ones, right? They may work for some things, but if you need the extra power dissipation, they may not hold up well enough.

The low voltage supplies are supposed to be plus and minus 8 volts, not 20. The higher voltage will put a stress on the components (mainly the caps) that are rated for lower voltages. The way that the voltage regulators work is, the positive one sets the voltage and the negative one just matches it. So if your positive regulator is not working correctly the negative one will also be wrong.

Your transistor list has a 38735, that I couldn't find on the schematic. Which transistor is this one?

Subject: Re: PC5032 semiconductor issues
Posted by stevem on Mon, 11 Jan 2016 12:04:03 GMT

It's Q4 on the schematic Bill.