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Subject: Looking for Scematics

Posted by [JoeT](#) on Mon, 17 Jan 2011 15:22:11 GMT

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Hi Guys, Picked up a 150-6 Bass combo in fair condition. Looking to rebuild. Unfortunately someone in the past had removed the power amp board and installed different power amp. Cannot identify what the amp is, but it's a small module on a heat sink with date codes of 1971. Whomever did the mods, did a decent job. Combo plays and sounds OK, but obviously with mods that drastic not confident in the reliability and its power output. Looking to see if anyone has schematics for the K150-6 bass combo, and if anyone has an amplifier board or old chassis they are willing to part with and for how much.

Someone had sent me schematics for a K100-1 I bought a couple months ago. Head would not output at all. Checked every component in the amp and could not find anything definitely bad. When I received the drawings I notice the drawings which were a Revision 3, had some 1% resistors indicated when my unit had 5% carbon. Checked those 2 resistors and found they had drifted so far out of spec that they shut the amp down. Replaced with precision resistors and amp sounds great. Thought you repair guys might find interesting.

Thanks  
Joe Treiber

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Subject: Re: Looking for Scematics

Posted by [stevem](#) on Sun, 23 Jan 2011 18:11:15 GMT

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Hello and welcome to the joint!

I will have to assume that you are talking about the PC5066 output driver board, as your amp, as in all vintage Kustoms have no complete output section on one board.

The PC5066 board drives the two T03 type output transistors mounted on the riveted on heat sink on the rear floor of the amp.

This Aluminum section also mounts the thermal circuit and the bias diode which is in a clip.

I have schematics I can send you, but I have to let you know that finding a 5066 driver board will be quite hard, and making one from scratch while not impossible will be a long winter project!

PM me your address if you like and I will mail you out copies of the schematic.

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Subject: Re: Looking for Scematics

Posted by [pleat](#) on Sun, 23 Jan 2011 19:37:48 GMT

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The power amp board number is PC5032 for the SC series K150 amps.

One problem that hasn't been addressed is if anything else has been changed or removed from the original power supply that feeds the replacement power amp. Finding a donor amp is one solution, but most donor amps can be repaired. I'd look for a slant face K150-1 or the K150 slant

face PA head for a donor amp. These aren't that much money.  
pleat

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Subject: Re: Looking for Scematics  
Posted by [JoeT](#) on Sun, 23 Jan 2011 23:28:59 GMT  
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Hi Pleat, if I understand correctly the K150-1 and the K150 pa head use the PC5032 board. Not having the combo drawings I'm not sure whats missing from the combo, but it appears to only be the PC5032 board and the 2 final transistors. The transformer, rectifier and caps are intact and being used by the power amp module they added. The two preamp boards are there and at least one works, the other isn't connected. To get around loosing the +&-8 volts from the PC5032 they had installed 8 volt regulators and actually mounted them to where the final transistor had gone. The amp plays but seems to clip pretty early and of course I'm concerned about reliability considering how much its been modified. I had sent a PM to stevem regarding the drawings and indicated for the amount of hassle it might be to get back to original I might install a class d amp module and use with the existng preamp boards. I would get more power and hopefully a reliable power amp. I'll rig the back panel with jacks to access the speaker and if it goes down during a gig I can slap a backup amp on and keep playing.

Any info you have on the K150-6, K150-1 or K150 PA would be appreciated

Thanks  
Joe Treiber

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Subject: Re: Looking for Scematics  
Posted by [pleat](#) on Mon, 24 Jan 2011 03:47:41 GMT  
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Joe, the Self Contained SC series K150-6, K150-7, K150-8 used the PC5032 power amp board. The newer slant metal faced K150 guitar and PA used a different power amp board, I think it is a PC5034 but it would still be a 75 watt rms board, and those amps are not that expensive used. I'd use any slant face amp as a donor to get a plexi face amp back up and running. The +8 and -8 voltage is part of the slant face amps.

The amp that you have now that clips easily, since I don't know what the amp is or what impedance it wants to see, it may have a mis matched speaker that the amp is driving. Just guess work on my part, I'm not a tech, so I'll let the experts give advice on why you are having issues.

My thought is to use a slant face donor amp to get your plexi going.

pleat

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Subject: Re: Looking for Scematics  
Posted by [JoeT](#) on Tue, 25 Jan 2011 17:09:06 GMT  
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Hi guys, thanks for the info. I took a look at the PC5032 drawings and it does appear to be the same amplifier, but doesn't include the 8 volt regulators. That can be worked around. The guy that modified the one I have, installed separate regulators. I guess the thing I need now is does any one have the Schematic for the PC5035 board. This is the preamp board for the bass amp, there are 2 of them in the unit. If any one has can you email a copy.

Thnaks  
Joe Treiber  
treiber@troybelting.com

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Subject: Re: Looking for Scematics  
Posted by [Kustom\\_Bart](#) on Tue, 25 Jan 2011 18:52:29 GMT  
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e-mail sent with schematic.

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Subject: Re: Looking for Scematics  
Posted by [pleat](#) on Tue, 25 Jan 2011 22:51:13 GMT  
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Joe, the PC5032 is the power amp and 8+8- regulator board for the K150-6 SC single 15" bass amp. It also uses a PC5025 and a PC5036 pre amp circuit boards.  
pleat

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Subject: Re: Looking for Scematics  
Posted by [JoeT](#) on Wed, 26 Jan 2011 13:18:21 GMT  
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Hi Pleat, I actually pulled one of the preamp boards out of the combo. its actually a PC5035. Both channels appear to exactly the same, so I'm assuming the other preamp board is also a PC5035,(have not removed from chassis yet). So it looks like this combo has 2 x PC5035 and 1x PC5032 (missing board). I took a look at the PC5032 drawing and it does show two input signals coming into, one from each channel or preamp board.

I know one of the PC5035 boards works because its tied to the power amp module they put into the combo. Can't find any identifying marks on it, but it has components from 1971 on it. Its just a heat sink assembly with mounting tabs with a circuit board and two output transistors. Looks like the heat sink bolted into the back of an amplifier. The other funny thing they did was install 15 volt regulators instead of 8 volt. I'm sure thats not doing the preamp board any good, but thats easy enough to change.

So if anyone out there has a PC5035 board it would be useful.

Thanks  
Joe Treiber

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Subject: Re: Looking for Scematics  
Posted by [pleat](#) on Wed, 26 Jan 2011 13:45:02 GMT  
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Joe, I noticed I had a typing error. Pre amp board numbers are PC5035 and PC5036. They would be the same boards but reversed control layout. Someone did a lot of work trying to get the amp back up and running and spent a lot of time installing a different power amp section rather than repairing the original power amp.  
pleat

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Subject: Re: Looking for Scematics  
Posted by [JoeT](#) on Wed, 26 Jan 2011 22:04:38 GMT  
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Hi pleat, you know I was thinking the preamp boards were the same, but I wasn't considering the reverse image thing. Makes sense now. Yes, some one did go to a lot of trouble. You would think it would have been easier to repair the bad board but it might have actually burned up quite a bit. They did replace the bridge rectifier and the caps. Not nice computer grade but but circuit board types. The dc buss reactor looks to be original though, so it didn't fail. The Altec 418 seems to be in real good condition and the tuck and roll can be repaired. Most of the damage is to the 2 cross pieces that should be easy to replace and may not show to bad if I use new naugahyde (silver). For some reason I'm attracted to this amp and probably will spend some money and get up to playing condition. I play bass in 60" girl group band. Thanks for the info on the boards. If I can't find drawings I might try and make a set myself on AutoCad. These boards are pretty simple, not a lot of components.  
I don't know if you have looked at any these new class D amplifiers you can buy now. Fairly small, extremely efficient.  
Might stick one in this amp to get more power and reliability. With two premp boards and a good amp should be pretty reliable.

Thanks  
Joe Treiber

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