
Subject: kasino club

Posted by [hammondm3](#) on Tue, 26 Apr 2011 16:08:41 GMT

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Hi, I'm new to the forum and to repairing amps and have just bought my first Kustom, a Kasino Club pa head marked model U100. I want to use it for keyboards, especially my Hammond M3 (which has a 1/4" line out). I have a speaker cabinet with a single 12" 8 ohm full range speaker for practice. I have some questions. As you face the back of the amp on the left are two 1/4 " jacks labeled "speaker output" and "One 8 ohm or two 16 ohm loads." How should I hook up the single 12" speaker? Do I just use one of the outputs (and if so which) or both? Also, I am going to replace the filter caps and add a three prong grounded power chord. I don't know if I need to do anything else, but does anyone have a schematic for sale? I'd like to get one so I can work intelligently on this.

Any and all help and advice is greatly appreciated.

Subject: Re: kasino club

Posted by [chicagobill](#) on Tue, 26 Apr 2011 19:37:50 GMT

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Welcome to the place. I used to have an M3-Blond. Great organ.

The speaker jacks are wired in parallel, so use either one with your 8 ohm cabinet.

As for schematics, if you remove the chassis you will find a number etched into each circuit board in the amp, like PC5065. Post all of the ones that you need and we'll see if we have them to send you.

What is wrong with the amp? Is it humming? Why do you want to replace the filter caps?

Subject: Re: kasino club

Posted by [hammondm3](#) on Tue, 26 Apr 2011 21:55:41 GMT

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Thank you and thanks for the info. Yes, it has a pretty pronounced hum and when I took it apart to clean the pots (they were slightly scratchy, but problem solved now) I noticed that one of the filter caps was covered with a white, crystalline deposit on top and down the sides. It was also bulging slightly on top. I figured it would be good to replace them both with new ones. I don't know much at all about amps but I do rebuild old tube radios and am familiar with filter caps going bad, so I thought that would be a good place to start. I thought of putting the grounded power cord on just as a safety upgrade. I have new filter caps (Mallory, 2900's 50 vdc, the originals in there are 2300's 50vdc) so I'll put them in and see what happens.

Subject: Re: kasino club

Posted by [pleat](#) on Tue, 26 Apr 2011 23:23:46 GMT

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Welcome to the site. Your Kasino Club PA uses board numbers PC105, PC803, and PC703. It is identical to the Kustom K100-5 PA Head. As far as the speaker question (One 8 ohm or two 16 ohm loads.) The amp is designed to run a total of 8 ohms. If you run two 16 ohm cabs, the amp is seeing an 8 ohm load. Don't run two 8 ohm cabinets, that would give you a 4 ohm total load.

pleat

Subject: Re: kasino club

Posted by [hammondm3](#) on Wed, 27 Apr 2011 00:58:41 GMT

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Thanks, that makes sense and thanks for the numbers. As soon as I replace the filter caps I'll see how it sounds and go from there. Then those numbers you listed might come in very handy. Even if everything sounds good I'd like to get schematics of the boards anyway as I plan to keep and use the amp a long time. I've found it's always good to have the technical info for something you can work on! I'll get to that asap. My wife just had a baby a week ago, so things are still a little hectic around here and I haven't had time for the amp, needless to say. But I will in the next few days.

Subject: Re: kasino club

Posted by [chicagobill](#) on Wed, 27 Apr 2011 16:37:59 GMT

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Congrats on both new additions to the family!

Subject: Re: kasino club

Posted by [hammondm3](#) on Thu, 28 Apr 2011 18:10:40 GMT

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We're really happy about both of them!

Subject: Re: kasino club

Posted by [cassent5150](#) on Sat, 30 Apr 2011 02:26:12 GMT

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WELCOME to the place!!! You can get all the schematics for that free to download at the web site below. PC-105 is your four pre amp boards and its close to the top of the page. The PC-803 reverb board and your PC-900 driver board are down at the bottom of the page.

Steve C

Subject: Re: kasino club

Posted by [hammondm3](#) on Tue, 03 May 2011 15:22:18 GMT

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Thanks for the info! I put in the filter caps and a three prong plug and when I get a minute I'll plug it in and see how it sounds. (Things have been hectic as of late-- plumbing).

Subject: Re: kasino club

Posted by [w0ttm](#) on Thu, 26 May 2011 23:43:11 GMT

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Just a note on your new 3 wire cord.

It is proper to upgrade ALL vintage equipment with a 3 wire, grounding cord.

There is a capacitor near the power switch that MUST to be removed for safety. In the industry, we call it the "death cap".

It will be connected between chassis ground and one terminal of the power switch.

These have been known to short, and can make the chassis, and whatever is plugged in to it, live at full line voltage.

You probably already know that the green wire on your new cord should go to chassis ground, but I figured I'd be safe and mention it anyway.

This is coming from a licensed electrician and an FCC licensed broadcast engineer.

By the way, I own a Kasino club too. Great amp.....Rob.

Subject: Re: kasino club

Posted by [hammondm3](#) on Fri, 27 May 2011 16:04:59 GMT

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Thanks for the good info. I did not know about the death cap. Looking into the amp, I think I can see the cap you are talking about. It connects, as you say, to the power switch and goes to the chassis. It is the only cap I can see connected to the power switch so that would be the one, right? So it should be disconnected, which makes sense. Could it also be replaced with a Y2 cap? I was just wondering if that would be a safe alternative because if it is the cap i am thinking of , it is on the second position of the power switch that helps attenuate hum and removing it would get rid of that feature. On the other hand, if this is a dangerous idea, then I will be more than happy to remove the cap and leave it like that. What are your thoughts on that?

Subject: Re: kasino club
Posted by [w0ttm](#) on Fri, 27 May 2011 16:35:22 GMT
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That is the death cap.

It can reduce hum with a two wire power cord, but with 3 wires, it's redundant.

A Y2 cap should work, but will probably have no effect, and if the amp is used with a GFCI protected outlet (required outdoors and in wet locations), it might cause nuisance tripping.

I remember, back in the 70's, my bands Kustom 200 PA had that same setup. If we did not get the ground switches on our guitar amps and the PA in the same position, when our lips touched a microphone it was quite an experience.

Subject: Re: kasino club
Posted by [hammondm3](#) on Wed, 01 Jun 2011 06:34:43 GMT
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I'll bet it was! Well, I guess I'll just leave it out. I mostly play at home and my place is pretty old and doesn't have grounded outlets. That's why I thought about a Y2 cap. I figured I'd add a three prong chord for when I play elsewhere. Perhaps I should just add a ground wire and rod at my place and do it up right. Thanks for the helpful info!

Subject: Re: kasino club
Posted by [hammondm3](#) on Sat, 11 Jun 2011 02:43:54 GMT
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Well, I plugged it in and it sounds pretty good! There is a 60hz coming in from the organ itself, but I think I can fix that with a d.i. box in the input line from the organ. The amp, however, sounds really nice. Good reverb, nice volume. Thanks to everyone for their helpful advice. The only thing left to do is to now repair the number 4 channel on the amp, as it doesn't have any volume at all. I'll further investigate and post what I find out.

Thanks again.

Subject: Re: kasino club
Posted by [w0ttm](#) on Sat, 11 Jun 2011 04:26:28 GMT
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That's one of the attractions of vintage Kustom amps.

They last forever and sound great.

The singer in my 70's band still has his Kustom 200, and after two house fires and a flood, it still works. Not 100%, but it works.

My Kasino club is in service at my church as a monitor amp, replacing a name brand amp that lasted a bit over a year before toasting itself.

About your dead channel. One of the few issues I've had with these amps is with tantalum capacitors. It's not a design flaw, that type of cap can be persnickity. That's where I'd look first. Fortunately, you have 3 good channels as a reference.
By the way, our keyboardist in that 70's band had a Hammond M3.
It weighed almost as much as my ex wife.....

Subject: Re: kasino club
Posted by [cassent5150](#) on Sat, 11 Jun 2011 19:52:48 GMT
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I'd check the 3 transistors across the top, and if I were a betting man I'd bet it was the se4002 (or PET8002 in some models) on the corner right above the reverb control. If not, the 2n3638 or se4002 above the volume control has an open circuit inside.

Subject: Re: kasino club
Posted by [hammondm3](#) on Sun, 12 Jun 2011 03:16:27 GMT
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Thanks, I'll check those out. Where is a good place to buy those transistors? And as for the tantalum caps, I'll look at the schematic and see where they are. If it is them, what type should I replace them with?

Subject: Re: kasino club
Posted by [cassent5150](#) on Sun, 12 Jun 2011 17:28:56 GMT
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I'm not a tech so I can only give opinioinated advise. As many of these as I have worked on there are a few that will really effect your sound, but for the most part I have used tantulum type for tantulum replacement even though an electrolytic can type will work. If your looking for a place to get exact replacements or suitable replacements you can call Mouser Elecronic Component Supply and order it by phone or on the web and have is sent to your door for like 6 bucks. I usualy call them myself, just get the # off the internet web site. NTE has a site you can order suitable replacements also for the transistors. I learned the hard way to not replace more than needed cause it can create more problems than you solve sometimes. Even if they're suitable replacements they are not exact to specs and too much change in the cicuitry seems to throw everything out of ballance if you know what I mean.

LETS SEE:

Replacement for the SE4002 or PET8002 will be an NTE-123AP. Allthough for those across the top of that a few more would be like a 2N5088/2N5089 or my favorite 2N3565 which is super quiet and still high gain. I have rebuilt 2 of those preamp cicuits with the 2N3565 in choice places and about eliminated the hiss, but there is a draw back. You loose some of the clean headroom, but the distortion you pick up is so much tighter and warm sounding. You can still get the 2N3638 but

it comes in a TO-92 package so make sure you pin it right on the instalation.

Subject: Re: kasino club

Posted by [w0ttm](#) on Mon, 13 Jun 2011 04:45:39 GMT

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Well, I am a tech (actually an engineer working as a tech) and I'm in total agreement with cassent5150.

The NTE123AP is a general purpose replacement part and while it will work, I'd go with better ones. 2N5088, 2N5089, etc.

NTE parts also tend to cost a lot more than they should.

Mouser is a good source for transistors and tantalum caps, and you might also look at Jameco, Arrow, and On semi (formerly Motorola).

<http://www.mouser.com>

<http://www.jameco.com>

<http://www.arrow.com>

<http://www.onsemi.com>

Subject: Re: kasino club

Posted by [cassent5150](#) on Mon, 13 Jun 2011 11:11:18 GMT

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Thanks for the semiconductor sources. Mine are limited and that sure added to them. I ran into one yesterday trying to find a pair of 2SJ162 and its complimentary 2SK1058 Mosfet. I thought 4 bucks a piece was a good price for them at the link below

<http://www.taydaelectronics.com/servlet/StoreFront>

This may be another good source.

Subject: Re: kasino club

Posted by [hammondm3](#) on Tue, 14 Jun 2011 19:49:23 GMT

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Thanks guys. I'll go and check those out and see what I can do.
