



Paul c mod

While there are other names for this mod, it seems that the most common Paul C mod is, so we'll use that for this discussion. I also like to keep things simple, for the benefit of most people, so instead of the technical aspects of what's happening in the circuit, let's look at what it actually offers the player. The 5E3 is known for very its early volume increase & amp; breakup, so at about 3 you are on overdrive with about max volume and everything after that is just more drive and saturation. It is also known to have a pretty loose bottom end. The interactive nature of the controls lets you choose in some great clean tones, so it's more of a sound chameleon than people would think. The Paul C mod will give you more headroom, so the overdrive wouldn't come into play until you're at about 6-7 (tweeds go to 12), but after that it's overdrive as normal. It also gives you more of a traditional sound control, and the bottom end is tightened as well as getting a bump that gives you a bump in the volume. I was also asked if it was possible to make the Paul C mod a switchable option for the 5E3 D-Lux. Since this was a one-time request. I didn't pursue it for this customer at the time, but I put it on my project list because I found that good ideas often come through the questions that people ask. Well, it's finally my turn and I have to say that it was at the right time when another request came in for this mod, so I committed to building and working out the details. The mod could be a much more neat way. After a little calculation for the layout would be a much more neat way. After a little calculation for the layout would be a much more neat way. material, the new circuit board was not difficult at all. The switchable Paul C mod is a nice fit in the case and the mini-toggle for it is hidden next to a preamplifier tube. Playing two 5E3 D-Lux amps side by side, one stock & amp; one with the mod, can give you a good comparison of what the mod offers and it can be somewhat dramatic. The disadvantage of this comparison is that it does not take into account the remaining components in each amplifier such as the Cap & amp; Resistor values, pipes or speakers and they all contribute to the sound of the amplifier. With the switch on the other hand you get an exact comparison and although it may seem much more subtle, it is still noticeable. Having the opportunity can be beneficial as it opens up some new possibilities. Author Topic: of Paul C Mod Question (Read 2298 times) 0 members and 1 quest look at this topic. This mod places a DC bias voltage on the mains of the phase inverter. Sean Kilback, has a scheme and photo of this on its website. The schematic is copied below (with permission): My impression of this mod is that it makes the amplifier sound bigger. It seems to increase the abundance of bass. It doesn't add more bass, it just sounds different. I think I can lower the volume button from 5 to about 4, not because it's louder, but it seems to cut through the mix. The 2M2 resistor is connected to the B+ supply to supply the preload. When you make the Stokes mod, the point shown above is on a different tap of the power supply than if the amplifier tubes tap 84 V 79 V 250 V My preference was for the phase inverter Tap. The amplifier remained slightly cleaner than the 97 V vs. 79 V mesh was distorted - the sound of a higher preload. I thought the distortion was also better. I read something about the cathode voltage of a 12AX7 should not be over 100V, so I'm not sure if the tube is stressed. I'll keep it that way and see if the tube goes down and I'll post something here if it does. 02-03-04, 21:00 #1 I'm curious to see what it sounds like. I am looking for a small bar/club. If I play something here if it does. 02-03-04, 21:00 #1 I'm curious to see what it sounds like. clean room to compete with vocals/drums/bass when placed on a chair or something? I will use Teles, BTW (sorry, I sold my Pauls until I can attach a Paul must have Marshalls). The record label wanted a disco hit. We gave them Highway to Hell. -Malcom Young 02-05-04, 01:01 am #2 I made the PaulC mod on my Mission Amps 5e3 kit. It made a small difference, not much, but it seemed to tighten the bass a little. I liked it enough to hold it. How for clean headroom in a gigging situation? Spin 2 spin There is no clean headroom on my amplifier - after 2 on the volume dial. Really, the amplifier is a 12 Watt Crunch Monster. *Maybe* loud enough to gig, all about how loud your drummer is. But don't expect clean headroom. Actually, I have my modded to give him a lot of punch ingessby by i Super output transformer, a 10W cathode resistor, a Weber Copper Cap GZ34 and a pair of small bottles6L6WGBs. The thing is noisy and flat out of rocks. If I want, I put back in the 6V6s and the 5Y3 to get the Tweed Deluxe Sound. Both flavors are super beautiful. I got a girl she lives on the hill 02-05-04, 09:30 AM #3 My original 5E3 does well for clean overhead. The difference is probably in the previous pipes with low amplification (these are octal), but could be 12AT7 or 12AY7 in the first preamplifier position. I walk it through a 410 cabin with 2 bluedogs and 2 Jensen reissues, so it has to save chimes, crunch and warmth. I really can't think of a better sound, although a brown super is also pretty cool... 02-05-04, 12:15 pm #4 Originally written by Scott Wolfe I made the PaulC mod on my Mission Amps 5e3 kit. It made a small difference, not much, but it seemed to tighten the bass a little. I liked it enough to hold it. How for clean headroom in a gigging situation? Spin 2 spin There is no clean headroom on my amplifier - after 2 on the volume dial. Really, the amplifier is a 12 Watt Crunch Monster. *Maybe* loud enough to gig, all about how loud your drummer is. But don't expect clean headroom. Actually, I used my modded to give him a lot of punch ingestion by swapping a Tweed Super output transformer, a 10W cathode resistor, a Weber Copper Cap GZ34 and a pair of small bottles of 6L6WGBs. The thing is noisy and flat out of rocks. If I want, I put back in the 6V6s and the 5Y3 to get the Tweed Deluxe Sound. Both flavors are super beautiful. That's actually something I'm probably going to do. Both proposals, actually. Maybe not the deluxe route now that I think more. Probably you build a 5E5 or 5E5a circuit cathode biased to run 6L6 and 6V6. I might want to use one of these switchable-ohmage tap-trannies from MM and run a Sorta switch so I can turn it between 2X10 and 4X10. Or simply build a 5E5 in a deluxe chassis/cabin as 1X12 instead of a 1X15. Now I just have to find out if I want the 4X10/2X10 or 1X12. The record label wanted a disco hit. We gave them Highway to Hell. -Malcom Young 02-05-04, 13:19 #5 Originally written by dafack01 Now I just have to find out if I want the 4X10/2X10 or 1X12. Here's what I did. I had the 1x12 of course in the Deluxe Combo cabin. The Super OT I added had an 8-ohm and a 4-ohm tap (individually designed by Bruce Collins.) The main speaker jack is set for the 8-ohm tap to connect is set to the 4-ohm tap. I use the 8 Ohm tip. When Inserting the 6L6s, I switch to the 4-Ohm extension tap to connect the on-board speaker and connect the parallel 4-ohm tap to a 1x12 auxiliary cabin. I separate the speakers by about 7 feet, and the sound. A lot of flexibility even when I run 6V6s - I use either only the 1x12 or both speakers by going through the 4-ohm tap. Great fun! I got a girl, they live on the Hill Home Forums & at: Amplifier Discussion Forums & at: Amplifier Discussion Forums & at: Amp Central Station & at: Discussion in 'Amp Central Station' launched by alnicopu. Aug 26, 2011. (You need to sign up or sign up to reply here.) Home Forums > Amplifier Discussion Forums > Amp Central Station > Could someone please explain what the Paul C and Stokes mods do to an amplifier - only in the words of the layman, as far as it affects the sound, volume, etc. Thank you. The Stokes mod [which John no longer supports, BTW] raises the B+ of the inverter to offer more profit Paul C's mod changes bias method of the inverter, again for a little more profit. The problem with the Princeton reverb [where this mod is most commonly used] is that the inverter a little more reversing, the amplifier delivers a bit more. That means you don't get for free anymore...... These mods increase the amplifier from about 12W to about 18W, but to do this the PT needs to provide more power..... that the PT is only marginally handleable. Me and other techs have seen blown PT's as a result of the PaulC mod and [more] of the Stokes mod. I no longer feel like these mods are worth it. If you want a larger amplifier, buy a larger amplifier. YMMV Reactions: Leonc I had done the mod on my BFPR and thought it wasn't that big a business. I don't think it makes the amplifier sound better (JMO) I like the idea of having an adjustable bias pot, which is a GREAT mod. To add Mark's comments, IME help the mods delete and smooth the distortion. The Stokes mod raises the point at which the amplifier is distorted slightly higher; then, when it goes into distortion, the PaulC mod makes it smoother and less muddy, or as Mark put it, less racy. Well - I've done the inv mod in a ton of amplifiers, and I've never seen a pt blow. Some of these amplifiers have been running for years. But I never included the mod with the Stokes mod, so maybe that's why... As Bud lite said, it's not that big from a deal - it just takes a little hash out of the signal. the amplifier stills sound pretty similar to what it did. It arose when you saw how wrong people were talking about balancing the inverters by matching the anode/cathode resistance. this was not the problem with the inverter - it was the bias point, and how the various source impse the pwr tubes worked. The inverter mod (which is an old textbook btw - I never said I invented it) distorts the inverter only to have a slight increase in profit, but nothing like what the Stokes B+ mod does. It is also have much less profit than any other standard mod that is to kill the vib circuit, and change the inv to a long tail that will blast the pwr tubes hard. I haven't heard many stories of iron bubbles doing this. But there is always an opportunity. I've seen amps blow when they hit with big boosters... But yes - the iron in the amplifiers is wimpy. If you want more from the amplifiers, this is a area to the Dink. Later, PaulC Tim & amp; timmy pedals good - I've done the inv mod in a ton of amplifiers, and I've never seen a pt beat. Some of these amplifiers have been running for years. But I never included the mod with the Stokes mod, so maybe that's why... Hey! Long time! Call me..... Anyway, fixing the bias is a pretty good thing, no doubt. So, yes, yrou mod is fine. Heck, Ampeg did it for years! It's John's mod that actually screws up the I drawing on the PT, and it really heats up the hell out of it. I think I'll -mod the stokes and see how it sounds cause my is too racy now, like is... or sell it... BF anyone ? Well - I've done the inv mod in a ton of amplifiers, and I've never seen a pt blow. Some of these amplifiers have been running for years. But I never included the mod with the Stokes mod, so maybe that's why... As Bud lite said, it's not that big from a deal - it just takes a little hash out of the signal. the amplifier stills sound pretty similar to what it did. It arose when you saw how wrong people were talking about balancing the inverters by matching the anode/cathode resistance, this was not the problem with the inverter - it was the bias point, and how the various source impse the pwr tubes worked. The inverter only to have a little more symswing, which reduces the nasty anode clipping of this design. This will have a slight increase in profit, but nothing like what the Stokes B+ mod does. Also, it will have much less profit than another standard mod that is to kill the vib circuit, and change the inv to a long tail that will blast the pwr tubes hard. I haven't heard many stories of iron bubbles doing this. But there is always an opportunity. I've seen amps blow when they hit with big boosters... But yes - the iron in the amplifiers is wimpy. If you want more from the amplifiers, this is a good area with which you can downsize. Later, PaulC Tim & amplifiers is wimpy. If you want more from the amplifiers, this is a good area with which you can downsize. Later, PaulC Tim & amplifiers is wimpy. been modded incorrectly before I got it. The vibrato had been separated. (Non-Reverb Princeton) Now years later, I did the long tail was the Paul C mod. I also added the Stokes mod, seemed to give the amplifier more leeway. The amplifier sounds killer with an SG Jr. plugged in and cranked. The amplifier I asked for is in fact a BF Princeton reverb that I had made both mods a few years ago from a well-known amp tech in New Jersey. It sounds perfect at the moment. I asked the guestion because someone asked me how the mods affected the amplifier and I didn't know the answer. Now, after reading the answers, I can use this extraordinary amp-tech in New New and ask him to undo the Stokes mod, especially as I'm going to use the amplifier more now because it has a muted overdrive tone. Thank you for all the information. Rick Paul C is about creating a fixed voltage on the mains, a few volts below the cathode voltage. Is this done with a few resistances? Yes.... but that's not to say the Torres kit is the same. I have no idea what DT has offered. Hey Mark - don't see for a long time. Yes, that was your job. The amplifier sounds great together with the BFDR and BFSR you worked on. But after reading this, I might want to undo this mod. I want to use this in a live situation for the cranked overdrive sound - so it will get a real workout. Rick (formerly Mojogypsies) We have a time limit here at work and I know I'm up to the last few minutes - I'll catch up with you later. Rick What makes the BFPR sound better than any mod is a 12 speaker. Reactions: DJ 61 you know where to find me.... The whole PaulC thing always choked me. It must have been about 8 years ago when I talked about this way of setting up a Cathodyne/Split Load Inverter on Weber and Ampage, when guys talked about this way of setting up a Cathodyne/Split Load Inverter on Weber and Ampage. name on it. I have always said that I got it from the old textbooks, and that Ampeg used it in a ton of amplifiers. I just put it in a Princeton to see if it would clean up the inverter some. I clapped about it, and my name stayed on for whatever reason. It was a bit of a drag because I had a ton of guys contacting me to blast my chops about it being an old circuit when I always said it was! There is another way I like to ganked with a Leslie that has to do with DC pairing of the driver in the inverter. Torres talked about it in an old VG article - that could be what you're thinking about. Hey Mark - shoot me your number! Later, PaulC Tim & amp; timmy Pedale Reactions: macmax77 Hey Mark - long time not to be seen. Yes, that was your job. The amplifier sounds great together with the BFDR and BFSR you worked on. But after reading this. I might want to undo this mod. I would like to do this in a live situation for the cranked use - so it will get a real workout. Rick (formerly mojogypsies) Rick. FWIW I have gegigged an SF PR with both mods, along with a few others, many times without any problems. I tend to think that the concerns are exaggerated. But that's just my clue. This thread has made me want to pull it out of the power trans under a heavily loaded condition. Heck, I've already changed the trans output, I don't think I should worry so much about changing the power trans. Maybe I should do this before it Put it aside with the OT in case I ever want to put it back in stock (can't really see that doing that though). Just to bump into this thread - just got a '68 Princeton NR and considered these mods. If I understand correctly (which I can't because I know much less than everyone here), would it make sense to swap the OT for a bigger/stronger one if you look at the Stokes mod? Also, is it possible to do the PaulC (sorry Paul, I know they don't like the moniker), but not the Stokes mod? I thought I was reading somewhere that it doesn't make sense to do one without the other, but I can't remember what it was! Please advise!! Brian Yes, you could make one of these mods without doing the other. I think MArk Norwine mentioned on the first page (do the PaulC mod and not the Stokes mod). Replacing the OT can be a good idea, whether you do the Stokes mod). Replacing the OT can be a good idea, whether you do the Stokes mod). paired with a 12 speaker. But back to the concerns about the Stokes mod, it was the Power Trans that may be compromised by the Stokes mod, not the trans edition, Trans,

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