
Subject: I want to build a Small Class A tube amp .
Posted by [JMONEY](#) on Fri, 10 Dec 2004 21:39:30 GMT
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I want to build a small Class A tube amp. For studio work. I have a Fender Champ size enclosure for it. As far as controls go. I just want a Volume Bass MID & treble controls. I want a Clean "hi fi " sound. Plenty of headroom.

Subject: Re: I want to build a Small Class A tube amp .
Posted by [Wayne Parham](#) on Sun, 12 Dec 2004 00:38:52 GMT
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How much power do you want? Have you checked into any of the kits? Seems like I saw some schematics in the posts here as well, so you could probably roll your own that way as well. But what kind of power are you expecting?

Subject: Re: I want to build a Small Class A tube amp .
Posted by [JMONEY](#) on Sun, 12 Dec 2004 02:10:39 GMT
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I want something from 5-10 watts. I think the kits I have seen are too pricey. I prefer more choices when it comes to parts, etc. Thanks for the reply!

Subject: Re: I want to build a Small Class A tube amp .
Posted by [Wayne Parham](#) on Sun, 12 Dec 2004 06:40:46 GMT
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I guess the 2A3's max out about 3 watts when used Class A. If that's enough, you can build an amplifier pretty cheaply.

Subject: Re: I want to build a Small Class A tube amp .
Posted by [JMONEY](#) on Sun, 12 Dec 2004 06:43:21 GMT
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Where can I find the schem ?

Subject: Re: I want to build a Small Class A tube amp .
Posted by [Wayne Parham](#) on Sun, 12 Dec 2004 12:59:42 GMT
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Here are a few:
Homebrew amp schematics

Subject: Re: I want to build a Small Class A tube amp .
Posted by [Thermionic](#) on Sat, 18 Dec 2004 13:14:42 GMT
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Check out Angela Instruments' website for their Super Single Ended guitar amp project. It's essentially a blackface Fender, which of course will give you a tremendous clean sound. Thermionic

Subject: Re: I want to build a Small Class A tube amp .
Posted by [Wayne Parham](#) on Sun, 19 Dec 2004 08:27:22 GMT
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Cool, thanks!! I'm still itching to see some of your designs!

Subject: Re: I want to build a Small Class A tube amp .
Posted by [Thermionic](#) on Tue, 21 Dec 2004 04:24:38 GMT
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Say Wayne, I'll post a pic of a hi-fi amp I'm working on for a customer when it's finished. Just a cheesy little cheapo beater EL84 PP amp for a second bedroom system, nothing special. I'll be building some of "the good stuff" after that, including a copy of my EL34 PP design. It uses a battery biased 6C45 per channel, choke-loaded parafeed through a silver foil/paper in oil cap into a mu-metal phase inverter transformer. The cathode biased PP pair of EL34s are switchable between triode and ultralinear, feeding the speaks through a Plitron toroidal OPT. The HEXFRED

rectified main power supply is a stiff, choke input monster with very low impedance. The preamp tubes have a separate tube rectified supply with motor run oil caps. I also use separate filament trannies. It's a real killer diller, and a real backbreaker at nearly 60 pounds too! Maybe I'll show up at one of the shindigs in Tulsa with one someday! Thermionic

Subject: Sweet!

Posted by [Wayne Parham](#) on Tue, 21 Dec 2004 10:37:41 GMT

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I'm looking forward to it!

Subject: 10 Watts

Posted by [PakProtector](#) on Mon, 14 Feb 2005 18:51:47 GMT

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Hey-Hey!!!,that power level is raght at the edge of what you can get from a SE 300B. It is well within what can be done with a SE Ultra-Linear rigged KT88.You'll probably want a bit more NFB, so consider E-Linear with something of moderate plate resistance like 6BQ7A's for amplifier valves. Two of them and a KT88 ought to give plenty of gain. Two stages right after each other is enough gain for a moving-magnet phono pre-amp, add another section and the E-linear driver, and you will have plenty I think. 5-6kOhm primary ought to alleviate the need for a lot of NFB, and less will give a smoother performance at overload.I know a few Hi-Fi trix for this sort of thing, but a lot of them ought to work for Guitar work...Things like L-C filters and valve rectifiers(preferably DH like 5U4's and U52'). Anybody have an Hg-Vapour pair of diodes in their Guitar PS? regards,Douglas
