Subject: Sourcing parts
Posted by colinhester on Wed, 19 Jan 2005 01:45:28 GMT
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Seems we're going "balls out" getting a custom wound trany.  I was wanting to keep the project around $100, but WTF.  What's the best part for each component?  If we're goin' do it, let's do it right.....Colin

Subject: Re: Sourcing parts
Posted by Manualblock on Wed, 19 Jan 2005 12:45:32 GMT
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Touche' now your talkin'! That was the drawback all along, go cheap and you have a Foreplay. Sign me up. Big transformers and caps here we come.I always felt the difference between cheap and done right is not that signifigant with a pre-amp; money wise.

Subject: Sourcing parts
Posted by PakProtector on Wed, 19 Jan 2005 13:20:29 GMT
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Hey-Hey!!!,For output coupling caps, Allied Electronics 7.5 uF ASC motor run caps. less than 10 each, any voltage rating is OK, but I slightly prefer the 440vac. Seem to be a slight improvement, and higher voltage will improve their recycleability.Cascode the active loads. This is the single most important thing. One more mosfet and gate stopper each. Can't over-emphasize this one. Might be best to design to put it in later, just for effect. Battery bias on the CCS is an improvement as well, but is a bit more complex and perhaps can be done o a rev. 2 ( and more comfort has been achieved with the design ).I don't quite agree with the cheap leads to ForePlay. The original as drawn will do quite well( better I think by a mile, but that's opinion for the time being ).regards,Douglas

Subject: Re: Sourcing parts
Posted by Manualblock on Wed, 19 Jan 2005 15:05:00 GMT
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O'Kay thats fair, I didn't mean to suggest the pre is weak just that the Foreplay is obviously a compromise since they must make some profit and at that price there isn't much room for frills.Douglas; do we need a new schematic for the changes?And about the filter choke; why not

add it to Heybeors list?

Subject: Re: Sourcing parts
Posted by PakProtector on Wed, 19 Jan 2005 15:44:01 GMT
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The big choke is PN HTS 8039. I don't see any reason not to do it this way. There were a few things which were specified at minimum price and complexity. Make sure you specify the type of endbells you want for the choke, I had a nice pair of vertical ones from my salvage bin and told them to put it together any way they wanted...The 'Swiss Army Knife' sort of Power Iron and the big choke will move things nicely up the performance ladder. In my book, $350-500 is a reasonable parts bill for a simple linestage. With labour and profit margins, a $350 parts bill would work out to something like a $4k linestage once it was properly dressed...regards,Douglas

Subject: Re: Sourcing parts
Posted by colinhester on Wed, 19 Jan 2005 16:38:10 GMT
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Is the original schematic posted in the below link still valid? I want to start ordering parts within the next couple of days.....Colin
http://audioroundtable.com/GroupBuild/messages/91.html

Subject: most of it is...
Posted by PakProtector on Wed, 19 Jan 2005 17:59:38 GMT
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There are a few changes. One being the rectifier. The new revision is a standard full wave. HV to the plates, ground the CT and continue as drawn. No SS required to assemble a full bridge. The choke is now changed to the big Heyboer 8039, but the 100 uF/370VAC from eBay's midorimeadows is not changed. probably best to run the 6CA4, though a pair of 6AX4 or 6W4 are also 'do-able' since we have 3A to cover the 2.4A required for using two damper diodes.Look at Bas Hornman's site on the active loads. I can't think of anything else of any importance.regards,Douglas
MOSFET CCS page

Subject: Wayne, Can you OrCAD this?
Posted by colinhester on Wed, 19 Jan 2005 18:33:08 GMT
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I'm still pretty new, and I don't want to make any mistakes.  In your "spare" time, could you pretty please CAD this to include recent changes.  Pleeeeeesa.....Colin

Subject: Dual rectifiers
Posted by colinhester on Wed, 19 Jan 2005 18:48:29 GMT
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It is worth upgrading to dual rectifiers?  Seems like the cost would be minimal.....Colin

Subject: Re: Wayne, Can you OrCAD this?
Posted by Wayne Parham on Wed, 19 Jan 2005 18:52:02 GMT
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You betcha.  I'd be glad to.  I'm a little busy at the moment, but I'll try to draw it up sometime in the very near future.

Subject: Re: Dual rectifiers
Posted by PakProtector on Wed, 19 Jan 2005 20:29:44 GMT
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Hey-hey!!!,Perhaps you misunderstood. The 6AX4 is a single diode, and we need at least two. If it is in the same envelope, with a common cathode, like the 6CA4, or in two bottles like the 6W4/6AX4 it does not make much difference. The damper diodes are a bit cheaper. We could run 12AX4's or 12AU4's and series connect the 6.3 and 5 VAC heater windings for a little bit slower warm-up. for that matter runing a 6CA4 from the 5 V winding would also be possible.There is also the 6AX6, but those are a bit on the rare side. 5V4GA, 6087, GZ34/5AR4, GZ33 and a few more I can't remember off the top ov my head will also work, and have the same pinout, and 5V ( and less than 3A ) heater requirement. All these options are what I'd call overkill, as a 6X5/5X4 would do the job quite well.regards,Douglas