Subject: using Kustoms in Europe
Posted by Bill on Fri, 10 Sep 2010 13:56:06 GMT
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MY friend in Europe needs to use his Kustom K50 with the
240volt/50 hz power they have there. I figured one of the cheap power converters could best be used (around $15), but he wants to maybe replace the transformer inside instead. Anyone have any info as to what he should use? I don't have a K50 schematic to see what the secondary power specs are.
Bill C

Subject: Re: using Kustoms in Europe
Posted by stevem on Fri, 10 Sep 2010 17:22:37 GMT
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The power transfomers in Kustom amps are riveted down to the chassie in 4 to 6 places.
You would probibly find it easyer to get a 2 to 1 ratio PT with a secondary rated for 1.5 to 2 amps to be on the safe side and then mount the PT in a seperate box fitted with a 120v 15amp USA socket to plug the amp into.
Something like a Hammond brand 172 serise is what I would look into.
I do not know what the secondary voltage and current requirements are for the K50 model in regards to changing out the PT, it would have to be measured.

Subject: Re: using Kustoms in Europe
Posted by pleat on Fri, 10 Sep 2010 20:41:55 GMT
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Secondary voltage is 33 volts according to a schematic I have.
pleat

Subject: Re: using Kustoms in Europe
Posted by Bill on Sat, 11 Sep 2010 04:25:04 GMT
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Thanks Pleat!

Subject: Re: using Kustoms in Europe
Posted by Bill on Sat, 11 Sep 2010 04:26:07 GMT
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Thanks Steve, I'll pass it on.
Bill

Subject: Re: using Kustoms in Europe
Posted by stevem on Thu, 16 Sep 2010 14:18:19 GMT
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Note that the 33 volt spec is the loaded voltage at the current level the amp pulls out of the pwer supply/ Transformer at idle.
If you or your friend is goind to replace the amps PT you will need one that can output a unloaded to 15 to 20 more volts than the that 33 volt spec!

This is what I found out about the power supply in a first serise Frank / K200 head.

This amp runs on a 40 volt + and - rail supply set up.

With 118 volts going into the PT the unloaded voltage out was 99.6.

The unloaded power supply rails where +47.9 and a -48.2.
In light of this you can see why I am saying you need at least 15 to 20 volts more of unloaded voltage to satisfy the amps full output wattage needs.

Note that the use of a PT that can output 10 percent or more current than the amp needs to make its max wattage will lead to the power supply voltage being higher then the needed idle level of 33 volts.
This is tricky stuff as most Kustom main rail filters are rated for only 10 volts more than the power supply idles at, so it is better if anything to have the power supply voltage sag a bit then to have the un-needed extra volatge blow out filters and may be even transistors, or cause other strange circuit happenings.

This is why modern regulated power supplys are such a blessing!