Subject: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by Wolfman88 on Thu, 10 Oct 2019 22:24:01 GMT
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What would it take to add a spring reverb tank to the K100-1 amp head? I have a couple of spring reverb tanks long spring and short spring and I want to add spring reverb to the amp. I'm already going to add a tube preamp to it which I know how to do but I'm lost on adding a reverb tank.

Subject: Re: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by stevem on Fri, 11 Oct 2019 09:59:27 GMT
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A brief answer to your question is it's a project you do not want to tackle!

Get yoursel one of the many great reverb stomp boxes that are out there and hook it up after your guitar and you will be saving yourself a big nightmare of trouble!

Subject: Re: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by Wolfman88 on Fri, 11 Oct 2019 18:35:33 GMT
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I'm already adding a tube preamp so what would need to be done? I'm handy on working on amps the tube preamp I'm doing a simple way so there has to be a simple way to add a reverb tank. Such as just wring the input to the input jack and output from the tank to the input side of the amp board adding a pot to control the reverb level. Give me it straight what do I have to do?

Subject: Re: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by thetragichero on Fri, 11 Oct 2019 21:45:51 GMT
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since the question was "what would it take"
you would need to break the circuit somewhere after the tone controls. insert a driver stage veggie the tank input, taking into account the tank's input impedance. after the tank's output you will need a recovery circuit and then a reverb level control so that you can blend reverb with the dry signal

that's the how, but for the "should you" please refer to stevem's comment

Subject: Re: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by stevem on Sun, 13 Oct 2019 10:45:22 GMT
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You also need to make the brackets to hang the tanks off of the top of the chassis from  along

with some type of shock mounting and the tank needs to be mounted such that it's output end is as far away from the power transformer as possible., and in light of that need a short style 9" three spring type tank would be what I would use.

Where would you put the level control for the reverb?

The K100-2 amps which had reverb and Tremolo gave up there second channel so as to have room for these controls and circuits, and this with SS circuits working things, if your going with a tube driven set up then that high voltage power supply itself eats up room .

If you where going for a tube driven reverb circuit then I would make tits power supply separate from the amp and feed filiment voltage a DC voltage into a 4 pin male XLR jack mounted on into the rear of the K100.
For tube stuff you can buy premade tag boards with two 9 pin tube sockets already on them and then you can mount that to Aluminum 6/32" standoffs from the chassis.

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Subject: Re: Adding A Spring Reverb Tank To A K100-1 50 Watt
Posted by thetragichero on Fri, 18 Oct 2019 13:46:01 GMT
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this is gonna be one cramped (and HOT) chassis. i imagine the heat will stay in the unit (vinyl-covered foam being the great insulator it is) and that should result in some... interesting effects on the semiconductors
what if you built an external tube-driven reverb unit and just added a buffered effects loop in between the pre and power amps? that would be my choice if i were dead set on using a tube-driven spring reverb unit (in this scenario I'd much prefer my pedal though... hard to get hall/gated/modulated/etc reverb from a spring tank but i just gotta twist a knob)

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Subject: Re: Adding A Spring Reverb Tank To A K100-1 50 Watt
Posted by stevem on Fri, 18 Oct 2019 16:13:11 GMT
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I guess not many folks have seen the kustom TRB400 model bass amp from 1999 thru 2000, as one of the two preamp channels has a tube for the gain stages.

I can post a gut shot picture tomorrow.

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Subject: Re: Adding A Spring Reverb Tank To A K100-1 50 Watt
Posted by Wolfman88 on Sat, 19 Oct 2019 04:34:50 GMT
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I will cut some of the back to make ventilation for the tubes. I'm waiting to start my youtube channel to do these mods so I can do a video on them. Its simple the way I'm doing the mods and I think I have everything figured out on both the tube preamp and reverb much easier than

everyone's talking. I will give an update once I do them and point to the video for the how. I'm not sure my way will work but I'll give it a try.

Which tank do yaw think I should use I have a med spring tank out of a Kustom KP80 pa head and a Accutronics long spring tank out of a Hammond Concorde organ. I'm thinking the med spring because I don't use much reverb but the long spring might have more depth. Basically I'm using an old 10 watt tube amp to make the preamp and the tank after the preamp. I will not give out how until I do the video but it should work fine the way I'm doing it.

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Subject: Re: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by Wolfman88 on Sat, 19 Oct 2019 05:57:44 GMT
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Or besides my idea how would I add the reverb to the tube amp? can I use the tremolo circuit? I don't use the trem system.

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Subject: Re: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by stevem on Sat, 19 Oct 2019 10:36:03 GMT
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I really can't see any logic as to why you are so against duriving your reverb needs from a stomp box!

If your K100 is not a beat up  near death mess I am really against you cutting a hole in the back of a vintage SS  amp so tubes can vent out!
I appreciate that you love your Kustoms sound but please forgive me but I am backing out of helping you out any more in your reverb project, maybe some else on the board will take over and help you, but I am out!

To me your doing something like taking a mint 60's Porsch and putting on the front fenders of a VW Bug!

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Subject: Re: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by zedsalt on Sat, 19 Oct 2019 15:30:01 GMT
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I DEFINITELY take your point, stevem, but I'm not so sure about your choice of analogy. I mean, Ferdinand Porsche designed the VW bug, didn't he? LOL

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Subject: Re: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by Wolfman88 on Sat, 19 Oct 2019 17:34:29 GMT
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The amp is in almost mint condition except for a tear in the Naugahyde on the bottom of the speaker cab. Now for a question on amps did Kustom make the 50 watt head in a all tube config with reverb? As for not wanting to use reverb from a pedal or my v-amp that I use for my distortion sometimes you want the real deal. As far as cutting on a vintage amp this is a ss amp from the late 60s its not like its a plexi. These amps are not worth much and never will be. So if you don't want to help that's your decision but its my amp I paid for it so I'll do the mods to get the sound I'm looking for. I might not have to cut because this is a 10 watt amp I'm using so I don't think it puts off too much heat and the way I plan on doing it it can easily be put back stock if I don't cut.

So for anyone else who's willing to help it would do less to the amp if I put the reverb on the tube amp so can anyone tell me where to start. Like I said it has trem that I won't use so can I use this circuit for the reverb?

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Subject: Re: Adding A Spring Reverb Tank  To A K100-1 50 Watt
Posted by Wolfman88 on Sat, 19 Oct 2019 19:26:45 GMT
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I guess I could put the reverb on the tube amp make the tube amp a tube preamp and make a box and have all this outside of the k100 so the amp would remain stock.

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