

Date: Tue, 17 Dec 2002 04:32:25 -0800  
From: "tomg"  
**Subject: vcf7 update**

When I finally populated a vcf7 board it was quite different to my proto version. I figure I had a leaky input transistor because the level was so low. When assembled the board had more in common with the big-muff than the 2600....nasty nasty stuff!!  
Anyway it has been tamed and updated with a parts list...BTW it does indeed work just fine without matching all those transistors. I'll try to get a short sample together sometime soon.....Nice (different) filter....

Tom

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Date: Tue, 14 Jan 2003 05:26:58 -0000  
From: "jpontmotm "  
**Subject: question on cap's in vcf7b small parts kit**

I received a vcf7b small parts kit today (thanks). One question, and two clarifications on the vc7b parts list.

Question: Capacitors on the parts list and schematic have C1, C2 & C7 as .1uF and C3-C6 as 470pF. I received 5 471k radial ceramics (which I assume are for the 470pF - one extra), 2 radial ceramics labelled 104 (which I assume are for the .1uF), and 1 33uF, 50V radial electrolytic. I cannot find an electrolytic listed anyplace on the vcf7b documentation. Was the electrolytic included as a mistake or am I missing an 'obvious' substitution of the electrolytic for one of the .1uF?

Parts list corrections: (1) On the schematic and parts diagram there are 12 2n3906's, so the parts list should have Q1-Q12, not Q1-Q10. (2) R30 is listed under 10k and 100k - the schematic has 10k.

Jeff

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Date: Thu, 24 Apr 2003 15:05:24 -0000  
From: "darkboneus"  
**Subject: VCF 7a (ARP 4075) Question**

I know that this is a little off subject and that the Maxx modules aren't supported any longer, but I thought I'd throw this out there. I just built the VCF7a Arp 4075 clone from the maxx series. It had a few problems in the schematic but I took care of them for the most part.  
The first problem was that if I wired pin 3 of the frequency pot directly to ground, the frequency response was nill. I just added a resistor between the pin and ground and got that taken care of. I had to change some resistances in the resonance loop to get acceptable feedback too. Now for my question. When I run an envelope generator or other voltage source into the filter CV inputs, everything is fine, UNLESS the CV passes above a certain postive voltage threshold and below a certain voltage. When it goes too high or too low, the filter just stops working. (IE no sound)  
What I'm wondering is this: How do I limit the voltage thresholds for the CV inputs so that they dont exceed the acceptable CV limits? I thought of using a diode clamp but it didn't work. (if you don't know the term diode

clamp, I'll draw it below) This is what I tried to do. Basically I connect the part on the far left of the drawing to the node where the base of the VC transistor and the CV summing resistors connect. I make 2 of the circuit below, one with the 4148 diode facing one way, one facing the other. I then trim one to limit the highest CV I want, and then the other to the lowest. I thought that this would work. It seems to work on my VCOs when the PWM gets too thin for my tastes. I just slap one of these on and it solves the problem. Any ideas regarding what I should try next?

+ 12v 1n4148 | ----->|50k trimmer | | =.1uf to ground | to ground

-Rob Currier

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From an SDIY post

Julian wrote:

> Anyone have any saved information on bugs, fixes, etc. for tom gambles  
> old modular range. im talking the vco4e, vcf 1e, 1f, 6c, etc.etc. -  
> that range.

VCF 7b: there are some errors around Q4-Q6 and Q8-Q10. Easiest way to fix it is to think of Q4 and Q6 as swapped, as well as Q8 and Q10. Then you end up with each transistor having at least two connections right.

Louis