

VALVE

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VALVE



VSAC '97
photos

Andy
Bartha's
cool
speaker
cables

Paul
Joppa's
6DN7
driver

DAC
attack
part III

S.E.X. kit
schemo
revealed!

**Ed Billeci's three chassis per channel SE WE212E amp,
truly the icon of VSAC '97**

VALVE

the monthly magazine
of eXtreme audio

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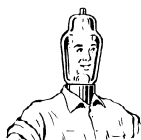
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VALVE in no way assumes responsibility for anyone harming themselves through exposure to the contents of this magazine. We believe electrons flow from minus to plus, and that they can kill you along the way if you're not careful. Vacuum tube audio equipment operates at potentially lethal voltages. Always treat it with respect.

Many ideas published in this magazine are untried, and involve the use of potentially dangerous parts and tools. In attempting any idea or project published herein, you assume total responsibility for your actions and any harm caused to yourself or others.

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editor's
thing

Yo, bottleheads,

Sitting here at the ol' lap-top in an awesome Spartan Imperial Mansion 50's era streamline trailer on the Washington coast, waiting for Eileen to return with the Tanqueray and tonic, so we may toast the end of the first VSAC and the beginning of our first vacation of the summer (well, there was that one day cruise on a nuclear sub a few weeks back, but that's hardly what most would call a vacation, and another story altogether).

Wow. We did it. The first gathering of the international tube audio community. To be sure, we need a few tweaks to make to next year's event (consider that question answered) even better; more time between seminars for folks to see everything (yes, the most common complaint was that there was too much to hear and do!), better organization of equipment needed for various display rooms and seminars, an extra day just for the manufacturers and members of the press to relax together, and a few other changes, but all in all, you folks made VSAC '97 the international tube audio event of the year, if not of all time. The list of people to thank is huge, but I'll try to hit some of the key players.

First and foremost is Eileen, who singlehandedly ran the last week of show preparation while I panicked to get my own equipment built for the show. Her unflagging support of all my cockamamie schemes, and her sense of forthright and organization saved this event from sinking on several occasions.

Next is Paul Joppa, who did a superb job of organizing and hosting the seminars. Paul's commitment to sharing knowledge in the tube community shone like a star during those talks, afterward everyone buzzed about the wonderful sense of free trade of what was once thought to be deep dark secrets during those talks.

Thanks also to all the lecturers, who did a bang up job of sharing information without turning the talks into ads for their own products.

This sense of community and sharing was truly the spirit of VSAC '97. After hearing of great friction between exhibitors at the Stereophile show, it was fascinating to see VSAC exhibitors hanging around in each other's rooms, offering well considered assistance and excitedly hooking equipment from different rooms together.

Also I want to thank two giants of the audio press, Bascom H. King and Dick Olsher, for taking the time to come out and see just what these loose cannon SE types are up to. It's clear after all too brief conversations that both of these men have a vast and deep knowledge of things audio, and I hope they came away with some new opinions of our little corner of the high end.

Thanks also to two giants of the West Coast audio scene, Winston Ma and Paul Stubbeline, for taking time to stop by and share their new collaborative works in progress.

And thank you to our distinguished international attendees, Eduardo B.E. de Lima, Mr. Masaho Uchida and his family, Takuji Yamamoto, and of course, Mr. and Mrs. Susumu Sakuma.

Sakuma san is my new favorite beatnick. Whether or not you liked the technology of the Sakuma system is moot. Sakuma san has a rare gift for picking music that brings emotion out of tubes, he is the only man who has ever brought me to tears with a particular selection of music. People all throughout the weekend speculated that this sparkling eyed, white schocked sprite with a sense of humor five times the size of his tiny frame, was bewitched. Truly an honor to be in your presence, Sakuma san.

Thanks so much to our talented interpreters Nori Herman and Chisuko Farley, who went above and beyond the call of duty, organizing shopping trips for Mr. Uchida's kids, and helping the Direct Heating folks set up for the concert.

How about Mikey? Hey Mike Lefevre, my virtuous twin, born to different parents, thank you for coming out and being our famous person, constantly hounded by the admiring masses, and patiently, attentively answering their every question.

Thanks also to two of my dear friends, John Tucker and Tony Glynn, for getting me to actually try this idea after mulling over it for two years. Thanks also to Tony for your success in untiringly working to get so many people to come.

Tucker? Well, what can I say about my best friend? Smoothplate either designed or built half my equipment, scraped together the right parts for the Sakuma system loudspeaker at zero hour, listened to the ravings of a madman during the last two weeks before the show, opened his woodshop to other exhibitors, myself included, to help them finish their equipment at the expense of completing one of his own projects, and gave a fine performance in helping to convince that fellow who decided to open an exhibit room without paying that it wasn't the healthy

did you just tune in?
here's what's
happened so far...

Back Issues

Volume 1 - 1994 issues - \$20

a Williamson amp; Dyna Stereo 70 mod bake-off; converting the Stereo 70 to 6GH8's; a QUAD system; triode input Dyna MkIII; MkIII vertical tasting; smoothing impedance curves; Altec A7; Ampexes Nagras and ribbon mikes; Triophoni, a 6CK4 amp; audio at the 1939 World's Fair; books for collectors and builders; V.T. vs. R.M.A. cross reference; FM tuner tube substitutions; Big Mac attack - the MI200; 6L6 shootout; a vintage "audessey"; more FM tuner mods; vintage radio mods; Heathkit rectifiers; PAS heater mod.

Volume 2 - 1995 issues - \$20

Rectifier shootout, tube vs. solid; FM 1000 recap and meters; single ended 10 amp; triode output W-4; Optimus 990 - speaker for SE?; star grounds; tuner shootout; Living Stereo, vinyl or CD?; World Audio SE integrated; firin' up - smoke checking; Brook 12A schematic; 6C33 vs. 3C33; Heathkit power transformers; 6B4's + Magnequest = SEcstasy; W5 mods; triode operating points; Dyna restorations; Marantz 7,8 and Scott LK150 impressions; hackable vintage gear; Quasimodo - PP 805 amp; restoring a Scott 340 in 75 minutes; a dream system for 78's; cartridges and styli for 78's; Restoring a Lowther, Part 1&2; easy tube CD output hack; 6ER5 phono preamp; 304TL & 450TH SE operating points; hypothetical DC ESL amps.

Volume 3 - 1996 (\$25):

Single Watt, Single Tube, Single Ended, an amp for Lowthers; the Vintage Speaker Shootout of 1996, QUAD vs. Lowther, vs. A7; the Voigt Loudspeaker, the Single Ended eX-perimenter's kit; cathode coupled SE 6AS7 amp; how to build the Superwhamodyne; re-foaming AR woofers; mesh plate tubes; re-building QUADS; QUAD amp filter surgery; single gain stage amps; the Brooklet, and Brookson, choke loaded PP 6080 amps; transformer coupled PP 6DN7 amp; the Iron Maiden;

choice. Judy Tucker took the bull by the horns when we needed mass quantities of paperwork typed up and calls made to track down critical info. Thanks, Judy.

John likes to tell me that I rekindled his interest in audio, which had been waning when he moved here from Houston a while back, but that feeling is mutual I assure you.

Buddha. Those of you who didn't meet John Camille at the show are poorer for it. John "Buddha" Camille (yup, that was really his call sign when he shot down MIGs for a living) came into our amp building class and patiently shared knowledge that made it clear Buddha has forgot more than the rest of us will ever know about electronics. Not only that, he's brilliant, charming, funnier than hell, can solder better than anybody I know, and truly loves hanging out with fellow bottleheads, no matter their level of experience.

Thanks to all the exhibitors who took the risk of doing this first show. In spite of the slightly dissapointing attendance (my goal was 200, we hit about 180), every exhibitor seemed to have gained something from their participation, a sale, a list of leads, a review, or a new business contact.

Thanks to Darcy Kaufmann of the Silverdale Hotel for holding our hands through the learning curve.

Volunteers. Boy this is a long list. Thanks to Grego Sanguinetti, Gary Dahl, Ed Billeci, John Hoffman, Eric Lenius, Dave Dintenfass, John Carey, John Ott, Andy Bartha, Jon Ver Halen, Pat Currie, Reid Welch, Kim Jenkins, Richard Riley, Tom Vetromile (official VSAC'97 photographer and insurance agent), and a bunch of you who just stood in whenever and wherever necessary. Thanks also to Ed Billeci, Steve Fellini and Ian Joel for getting pictures from the show up on the web so fast.

Try <http://www.teleport.com/~tubetube> - Ed Billeci's website, for some nice shots.

And lastly, thanks to all of you who attended. Wouldn't have been a party without you.

See y'all at VSAC '98 I hope.

Doc B.

Andy Bartha's cool inventions

Andy Bartha displayed his wares in one of my rooms at VSAC, demonstrating the killer bang for the buck qualities of his three sizes of "Whatchamacallits", resonance control devices composed of lead shot molded into a silicone damping material. I liberally applied these to my turntable, as I do at home. Andy also suggests trying them on transformers and CD players, and is currently developing a line of tube dampers of various sizes.

The turntable setup was as follows, in decreasing order of what I perceived to be the greatest improvement:

- 1 The largest RCD, drilled for a spindle and used as a record clamp. This is a big change, much tighter bass.
- 2 The smallest RCD, drilled for use as a replacement tonearm counterbalance weight. This along with some heat shrink tubing, has damped my bargain Linn Basik very nicely, much improved image, cleaner mids and highs.
- 3 Three mid size RCDs placed under the motor assembly of the DP-6000. Subtle but definite improvement of isolation, resulting in better quiet.
- 4 Four mid sized RCDs placed one to a corner on the plinth. This seems to help damp vibration a bit too.
- 5 four small RCDs on the tonearm mounting board. This gives further reduction of vibration transmission through the plinth.

Another of Andy's brainstormings was to take a pair of the Solo foil crossover inductors (16 ga.), and unroll them.

Andy then lightly sanded the copper foil and shot it with some clear spray finish. The ends of six foot sections of this foil were then rolled up and inserted into crimp style spade lugs. Once the assembly was completed the entire six foot cable was wrapped with teflon plumber's pipe thread tape, and heat shrink tubing was used at the terminations to hold the wrap in place.

Andy suggested we try these in place of the 12 ga. stranded continuous cast Vampire speaker wire I was using. Wow, big improvement, more vital sound, better top end, seemingly more dynamic and lively.

Andy has since tried the same process with some Goertz silver foil (!!) inductors, and says it's even better.

Give this a try. For about \$20, I think you'll be impressed.

Doc B.

HANDMADE ELECTRONICS

A PARTIAL LISTING OF WHAT WE HAVE FOR THE BEGINNING OR
ADVANCED HOBBYIST

Capacitors- KimberKap, RelCap MultiCap, Hovland, Nichicon Muse, Cerafine, Solen,
Our own high quality oils, 500vdc silver micas, Philips 1% polystyrenes. **Resistors-**
Holco metal film, IRC RN metal glaze 1% series, Mills & Memcor wirewound, Allen-
Bradley/Stackpole carbon compositions, Alps, Clarostat, Dale volume controls.

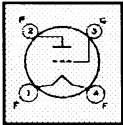
Tubes/Valves- Golden Dragon, Svetlana and other Russian made. **Connectors-** Kimber,
Cardas, Edison-Price, WBT and some nice inexpensive plastic binding posts that do the
job. **Transformers-** Hammond, MagneQuest and Tango (interstages only). **Metalwork-**
Hammond and our own basic chassis using non-magnetic materials. Kits- 2A3 and
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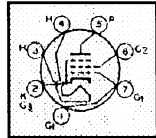
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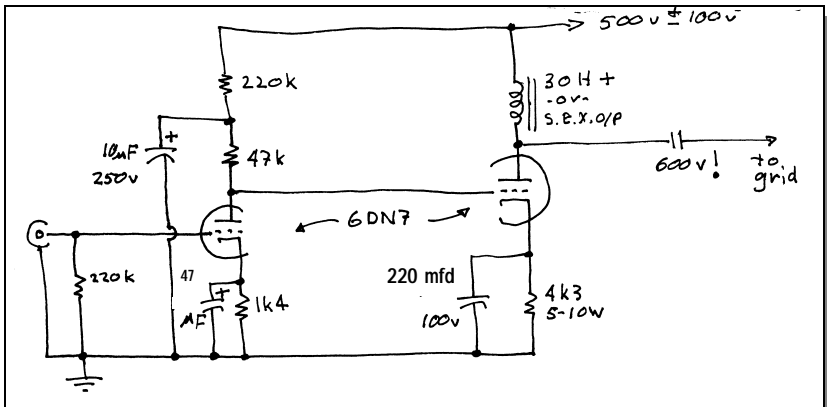


Export



Import

Brainiac's driver for voltage hungry output tubes



After a chat with Paul about the challenge I had coming up with a single stage input/driver for my VV52B amp, which requires about $\pm 94V$ grid swing on the 52s to get full output, Paul sent me a super cool circuit designed to drive just about anything that needs a lot of grid swing. Says Paul, "This should get close to $\pm 250V$ output, with a gain of about 250. It'll drive a 5K load too, in case you want

to zap your parallel 50s."

Perhaps even more intriguing, never the conventionalist, Paul P.S.s, "Hang that junior nickel 5K transformer off it and you should get a couple very nice watts out, in fact this could be a son-of-S.E.X. stereo parafeed amp...."

ABA

Andy Bartha Audio
954-583-7866 EST

Did you know every CD/Laser Disc you purchase has a “filmy coating” that was used to keep the polycarbonate disc from sticking to its metal mold during manufacture?

No matter how sophisticated your CD/Laser playback system is, it cannot correctly read the music beneath this film.

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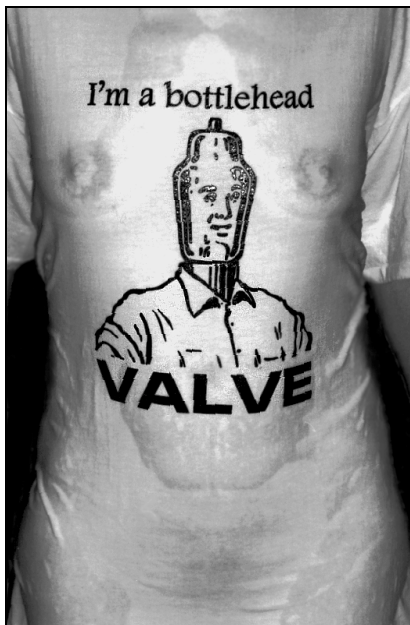
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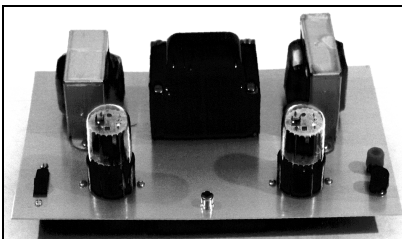
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The shirt of choice at VSAC '97
\$16 each, plus shipping, XL fits all.
ELECTRONIC TONALITIES/VALVE



The kits are coming, really!
The power transformers are trickling out of the factory, the manuals are being written, and we have a cool new adapter plate coming for the Afterglow, which mounts a nine pin miniature socket in an octal hole. Hang in there, in won't be long now!

ELECTRONIC TONALITIES/VALVE

DAC attack - part 3

L. Dean Moore, Audiogenic
Pete Goudreau

I don't know about the readers; but, I'm extremely excited about this, the third article in this series, that I've presented for two reasons. First, the input transformer modification presented in this article provides the second greatest improvement in overall DAC performance of anything I've attempted. Second, perhaps first and foremost, I have the honor of introducing Pete Goudreau who I am now co-authoring this series of articles with. Pete is in large part one of my mentors on DAC modifications. I consider it both an honor and a privilege to work with him. I became acquainted with Pete through the internet. Some of you may have read his posts on the modifications of The Parts Connection DAC-1.0 there. I have in essence performed all of these modifications, separate and apart from Pete, on both a 1.0 and 1.5. The benefit to the readers of VALVE is that these modifications are repeatable, transportable and affirmed by more than one person.

Specifically, this article pulls one of these modifications out and applies it to Norman Tracey's X-DAC 3.0 which appears to be extremely popular with the readers of VALVE. In fact, the esteemed editor of this publication, the one, the only S.E.X. Doctor, owns one. Now if I could just figure out a way to get him to modify it! (*Dean, surely you don't think anything I own is unmodified?* - B.) Hey, maybe we could get one of the readers to buy and/or perform the modification in this article on an X-DAC 3.0 and then we could have a shoot out!

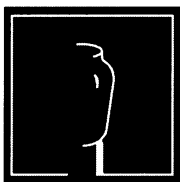
Anybody out there wanna go mano-a-mano with Doc?

a bonus for X-DAC 3.0 users

First off, could this void the warranty of you X-DAC 3.0? You betcha! You're on your own here. Second, any disclaimers which appear on the inside cover of VALVE apply here as well.

Now that you've been warned, here's the idea. Take a look at Sheet 2 of 5 of the schematic for the X-DAC 3.0. The SPDIF a and SPDIF b signals in the upper right hand corner of the schematic feed the input receiver chip, CS8412 pins 9 and 10, at the lower left hand corner on Sheet 1 of 5. This is where the modification you will perform will be inserted. This modification will install an input transformer to reduce the noise coming in on the

digital input. Look at Sheet 2 of 5, again. Assuming that you only require one input, you can dispense with the majority of the circuitry on this page. Here's what you need to do. Let's look at just one input and make that input 1. Remove R18, 75 ohms. Remove the reference to ground at the bottom of R18. T1 must be replaced with the 1:2 ratio step up transformer. This is offered by the Parts Connection in the new catalog for \$9.95. Across the secondary of T1, install two 150 ohm 1206 SMT resistors in series. These resistors should be mounted immediately adjacent to the transformer secondary pins to minimize any inductance in the loop. Also install a 22pF 1206 SMT capacitor across each 150 ohm resistor. The connection in between the two 150 ohm resistors should be reference to the digital ground on the CS8412, pin 8. This connection should also be bypassed to the chassis through five 22pF 1206 SMT connected in parallel. This puts 300 ohms across the secondary which loads the transport with 75 ohms. Remember, 300 ohms divided by the turns ratio of the transformer squared equals 75 ohms. The faraday shield of T1 should be referenced to the chassis through the lowest possible impedance path possible. Some copper foil tape and/or a piece of soldering wick works well for this purpose. Now connect the transformer secondary pins, with the resistors in series across them, which are now essentially the SPDIF a and SPDIF b signals, to the CS8412 pins 9 and 10, skipping U22, through 0.04uF capacitors. Check all of your grounding to prevent latch up of the receiver. You might also want to experiment by galvanically referencing your transport output to ground. Galvanically referencing the transport output may not be possible in some designs and might actually degrade the sound in others. Both methods should be tried for optimal performance. Presto, you just increased the CMRR! Now let's talk about the termination from the BNC input connector to the primary of T1. If you used a chassis mount BNC connector with a surface mount cap in it I alluded to in my first article you're ready to go. If not, use a Trompeter UBJ-26. Slip a ferrite bead on the pig tail of this connector and connect it to the primary of T1. Now you have a CLC pi filter on the shield of the input of the DAC composed of the surface mount capacitor in the chassis mount connector, the ferrite bead, and the parasitic capacitance associated with the primary of T1. Mission accomplished.



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Doc B's highlights of VSAC '97

- Watching our warehouse fill up with all sorts of cool goodies before the show
- Seeing guys like John Ott and Andy Bartha step in and help move what seemed like several tons of gear to and from the hotel
- Walking into room 340, seeing some SOB sitting there smoking, and realizing I just met my main bud Mike L., just as I was about to smack him on the back of the head
- Dinner with Dick Olsher, Tony Glynn, and Eileen
- Dinner with Eduardo de Lima and Eileen
- Walking into my other room and finding Paul Stubbelbine and Winston Ma auditioning some of their collaborative work on my system
- Lunch with Winston Ma
- Spending 45 minutes talking with Bascom King in room 340
- Sakuma san pointing out that he is the guy applauding on the Johnny Hartmann cut he is playing for me
- Meeting Takuji san, and having him tell me I look much older than the picture on my bottlehead T-shirt
- Shutting down that obnoxious guy who tried to open an exhibit room without paying, while Smoothplate and Buddha stood behind me, looking *very* serious
- Playing Professor Bottlehead at the parallel feed seminar
- Being touched to the point of tears by everyone's enthusiasm to do it all again next year
- Watching the ball room fill up before the Sakuma concert
- Being brought to tears once again by Sakuma's dedication to Eileen of Carmen McRae's cover of *I Left My Heart in San Francisco*
- Hearing all of Sakuma san's music, so many pieces my own favorites as well.
- Getting some sleep finally after 60 hours. Much less weepy the next morning
- Finally getting it together at the first amp builder's class, and teaching with Smoothplate and Buddha - wow!
- Meeting everybody - I think this fairly well unanimously has been called the best part of VSAC '97

See y'all next year, it'll never be the same as the first, but it'll only get better !

cravings

For Sale

- Two pairs of assembled S.E.X. amps, built with ceramic sockets and mounted on Hammond 10"x 6" chassis - \$350 each pair
- one pair Altec 290D, with aluminum diaphragms - \$100 plus shipping

Chadd Moore, 419-692-6026

For Sale

two pair Altec LU-1104 on 30170 Y throats, B/O to:

P.J. Finneson
P.O.Box 232
Bonanza, OR 97623

For Sale

Eico HF-87, \$300
HK Citation IV preamp w/cabinet, \$275
Altec 600B speakers, \$60 each
Crazy Eric, 360-871-5921

Wanted

Your pictures and impressions of VSAC '97
Please send your non-returnable photos to us at VALVE, PO Box 2786, Poulsbo, WA 98370, or scan them and send us GIFs attached to your e-mail at bottlehead@prodigy.net. We will continue to publish cool VSAC pictures in VALVE as space allows. We are particularly interested in "people shots", but any cool photo is desired.

october

Yup you guessed it, VSAC was our September VALVE meeting. Our October meeting will be here at Tonalities, Sunday October 5, 12 noon.. Honestly, I am a little tapped out for ideas for this meeting after concentrating on the show for so long. We will have the finished 69s to listen to, which have turned out to far exceed my expectations. If you heard them at the show, they are more broken in now, and I adjusted the stuffing to kill the slight hollow sound. They rock!

I also have a new pair of very nice equipment stands for the ol' listening room, courtesy of Tony Glynn. Thanks Tony!

By the way, we'll be tearing out the old walls in the basement, and building a new classroom/shop in the next few months, so we may need some alternative sites for our meetings for a bit. Bring your latest project, as usual!

VSAC '97 photo gallery



Sakuma san, doing what he does best - music! Photo by Steve Fellini



Bruce Edgar's 70 Hz horns and subwoofer - best ever Edgarnhorn. Photo: Tom V.



Grego Sanguinetti, getting ready to fire up the Universal Breadboard Amp. Over a couple of hours, Grego and Paul demoed bi and single 2A3, 300B, 45, 211, 845, 10, 801, 5V572, all sorts of cool tubes! Photo by Tom Vetromile



The E.A.R., U.S.A./Samadhi Acoustics room had great sound. Dick Olsher was on hand to talk about his Samadhi Natalia design. Photo by Tom Vetromile



John Hoffman and Eric Lenius set up some very rare vintage equipment, all in superb condition, in the VALVE Vintage Audio room. Above is a part of John's "Audio State of the Art, 1897-1927" display. Photo by Tom Vetromile



Here's John Tucker's personal Exemplars, with his way cool direct coupled VV30B amps with active loads on the drivers, in the Triode Support Systems room. Photo by Tom Vetromile

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and Electronic Tonalities' Dr. Bottlehead
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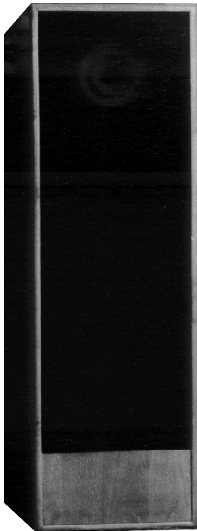
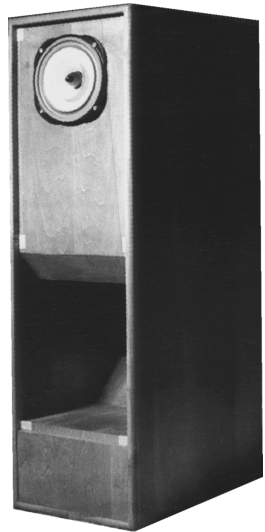
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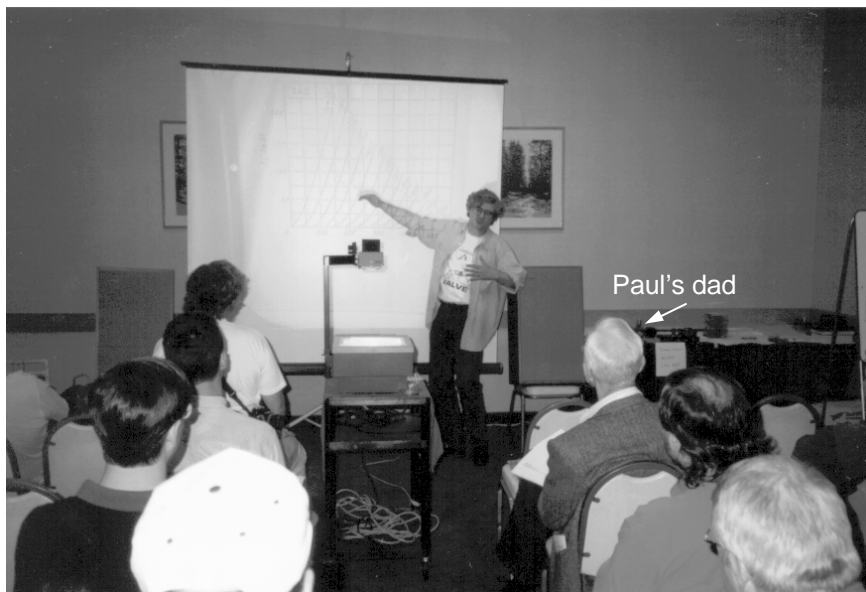
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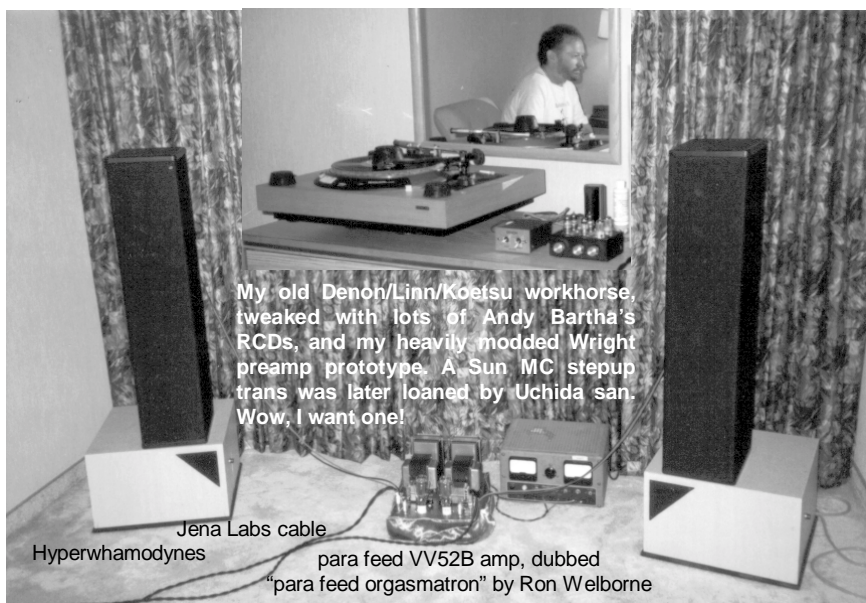
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Paul Joppa, giving the rundown on choosing an operating point in the seminar room. The room was packed for every topic. Photo by Tom Vetromile



Doc B. in da' house, showing how we do it VALVE style. The only guy with the guts to go with a vinyl only front end (had to use my CD in my other room...). Photos by Tom Vetromile, who tested the limits of my insurance by standing on a
 september 1997 19 VALVE



Some of the VSAC crew, slammin' down a few at the local brewpub, before the Sakuma concert. Sorry that I can't quite make out who the fellow at the back is, next to Ron. Photo by our waitress, using Steve Fellini's camera. Apologies for the strange looking faces, due only in part to the JPEG file this picture came from.



Another JPEG, of Reid Welch, and Sakuma san's right hand man, Takuji Yamamoto

Parallel Feeders, Get Busy!

The reaction to the parallel feed amps we've been playing with has been tremendous. Our seminar on the subject at VSAC '97 was 'standing room only'.

We're working as fast as we can to continue to develop circuits for you potential parafeeders. In the meantime, here's some combos that should work very nicely:

For 45, 6CK4, 6DN7 (see Paul Joppa's circuit in this issue)

- Brooklyn BCP 15 50H 40mA plate loading choke, \$50
- MagneQuest EXO-45 (5K:8ohm) or EXO-46 (5K:16 ohm) parallel feed output transformer, M6 version, \$75, Nickel version, \$135
- for operation at 3 watts maximum output

For 2A3, 6A3, 6B4

- MagneQuest EXO-04 50H 60mA plate loading choke, \$99
- MagneQuest EXO-35 (2.5K:8 ohm) or EXO-36 (2.5K:16 ohm) parallel feed output transformer, M6 version \$75, Nickel version \$135
- for operation at 4 watts maximum output

For 300B, VV300B, VV32B, operating at 60 mA maximum

- MagneQuest EXO-04 50H 60mA plate loading choke, \$99
- MagneQuest TFA-2004 (3K:4,8,16 ohms) parallel feed output transformer, M15 version \$99, special edition Pinstripe M6/nickel/brass ends version, \$225, Nickel version \$225 (\$275 with brass ends)
- For operation at 12 watts maximum output. New 80mA choke is under development!

Call 360-607-1936 and ask for Doc B. for more info.

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WRIGHT Sound Company



The **WLA10 line amp** with 4 inputs for those who don't need the phono section. Dubbed by those that have listened, as the best sounding line amp they have ever heard, tube or solid state. All this for \$365.00 plus \$17.50 shipping and handling in the continental U.S., WA res. please

add 8.2% sales tax.

The **WPP100A phono preamp**, the most natural sounding unit on the market today, is available at \$529 plus \$17.50 shipping and handling in the continental U.S., WA residents please add 8.2% sales tax. The WPP100A has gold RCA connectors, and a new WPS02 power supply with a power switch and plate and filament indicators. The performance is better than the original version, which beat all the competition in

listening tests by members of VALVE and other audiophiles who have had the pleasure of reviewing this product.



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the quality of the WPP100A, with the additions of a selector switch with phono plus three other line inputs and volume controls to make this the center of that great new S.E.Xy sound system. No longer do you need to wait for a great sounding addition to have great S.E.X., and at just \$649 U.S. funds plus \$17.50 shipping and handling, you can get this fully assembled preamp/line amp delivered to your door in the continental U.S., WA residents add 8.2%. The WPL10V is designed to be a cost effective basic chassis type, constructed with all the great stuff that goes into the WPP100A. We made it especially for you S.E.X. owners and VALVE members who want the most out of your system for the least out of your pocket. I must add that this product will work with almost any power amp you now have or may purchase, so with or without S.E.X. this is a great addition to the WRIGHT line. Stay tuned for future models.

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For further information, please leave a message at (253) 859-3592

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Enhanced S.E.X.* kitTM, *by Dr. Bottlehead* - The latest version of the 'amp and speakers' kit that started it all. New universal power transformer, power supply improvements, and wood base kit makes the kit the best deal ever \$399 amps only, \$430 with drivers

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“Ultimate Pleasure Output”,

by Mike Lafevre

Magnequest TFA-204 single ended output transformer. Peerless heritage, crafted by a modern master. The TFA-204 is the best entry level SE trans on the market - killer midrange- \$99ea.

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ForeplayTM, *by George Wright*

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by Smoothplate and Bottlehead

69” tall, sexy tapered pipes, metal drivers in an M-T-M array, and a quality first order crossover. 96 dB, 4 ohms. 48Hz-22kHz Most common comment at VSAC - “Blows away anything in the \$600 the pair price range.”

Bottlehead T shirts

On the front, the VALVE logo, a portrait of Mr. Bottlehead, and the proud phrase, “I’m a bottlehead”.

On the back, “Shut up and listen”

One size fits all (XL) \$16, plus shipping.

We are now a full line Magnequest & Brooklyn distributor:

Call us for your special needs, parallel feed inductors, nickel output transformers, Brooklyn push pull transformers, center tapped chokes, etc.

VALVE back issues

1994 - \$20 the year we got started

1995 - \$20 the year we hit our stride

1996 - \$25 a killer set, great material

add \$5 for each year ordered if outside US

stuff we’s playin’ with:

A 300B conversion for the S.E.X.amp

Paul Joppa has come up with a simple, straight forward mod for a S.E.X. kit that has been modified to the TFA-204 output transformers.

Hyperwhamodyne!TM,

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Parallel feed, nickel output transformers, KR Enterprises tubes, and a few well guarded secrets. Can Bottlehead and Lefevre turn the SE world upside down? After VSAC, everybody wants to parafeed!

