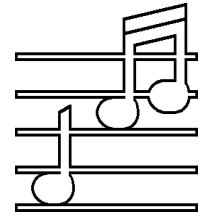


# AUDIO BASICS



A MONTHLY NEWSLETTER OF AUDIO INFORMATION  
VOLUME ELEVEN NUMBER ONE JANUARY, 1992

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## Audio by Van Alstine and the Dyna St-70 Mark II

There seems to be some confusion out there regarding our relationship to the new \$1000 Dyna Stereo 70 MK II being marketed by Panor Corporation and built for them by Sound Values. It seems as though they are claiming that some circuit ideas were “borrowed” from us and are actually acknowledging that in their owners manual – as if using our name enhances the validity of the design and giving us an acknowledgment in the manual helps us make car payments. To set the record clear we need to make the following comments:

- Many of our original concepts are being used by Panor – but without our authorization or permission and with no payment to us. Some people might consider this to be theft of intellectual rights. We do.
- On June 3, 1990 I sent a sample of our completed Super Seventy amplifier to Sound Value after conversations with them regarding the possibility of a joint effort to put it into larger scale production. If you would like a copy of that transmittal letter to them ask me for it.
- Sound Value asked me for the right to copy and produce our power transformer for the St-70. I gave them that right because they could produce it for a lower cost than I could and I thought it was being produced as a replacement item for original Dyna owners. Little did I know that it was for a new production unit they were doing for an outsider (Panor).
- Obviously, the St 70 MK II is borrowing most of our ideas, including the basics of the board layout, the power supply, the power transformer, the input filters and interstage time constants, everything that made the amplifier better than the original. Yes, Sound Value did tell us that the 6GH8A tube was a good replacement for the now out of production 7199. We published that letter and information herein in July, 1990. Yes, the MK II uses LEDs for setting bias instead of a meter. The price difference will buy you lots of meters.
- Unfortunately there are engineering blunders with the St 70 MK II design. An important feedback loop from the original Dyna St-70 design was eliminated and this is destabilizing. We looked at that years ago and found that it would cause problems depending upon the condition of the tubes.
- The 6GH8A tube is improperly biased. The original Dyna circuit will not drive to the negative rail properly, especially as the tubes age. We designed a new screen grid bias circuit for our very own Super 70i. The Dyna MK II does not have these improvements.
- Thus the St-70 MK II at \$1000 is not close to the performance of a Super 70i at \$695 complete (or \$195 for a rebuild kit to re-do your own old St-70).
- So no, *Absolute Sound*, the St-70 MK II does not “lack three dimensional form” because it is a copy of a Van Alstine amplifier, it is because it is, in our opinion, an inadequate copy and implementation of Van Alstine ideas. We suggest you try reviewing our original rebuild, the Super 70i before blaming us for the MK II’s deficiencies.

## Ten Year *Audio Basics* Index 1982 Through 1991

The following is a complete annotated *Audio Basics* index of our first ten years of publication. Each of these ten years is still available to you as back issue sets at \$15.00 per year or two years for \$25.00. Sorry, it is not economically possible for us to provide single issues. Foreign customers, add \$4.00 per year for postage.

1984/12 • Acoustat • 1 page

Acoustat loudspeakers acquired by Hafler and an upgrade to the transformer is announced. Obsolete

1990/06 • Acoustat 11 speakers • .75 page

Yet another do-it-yourself improvement for the Spectra 11 with no increase in price! A crossover resistor change flattens the high frequency response and improves the balance of the speaker.

1989/12 • Acoustat Spectra 11 speakers • 3 pages

This new electrostatic speaker is a nice design, but has a small weakness in the bass section. Overall, they are very good speakers, but watch the height, they stand six feet tall!

1990/03 • Acoustat Spectra 11 Upgrade • 2 pages

We still like the Spectra 11, but wanted to do something to help out the bass sound. So we took a Pyle Driver to them and purified the bass nicely!

1985/12 • Adcom GFA-555 • 1 page

We examine an Adcom amplifier and learn the Mos-Fet 120C stomps on it. Obsolete

1988/06 • Adcom GFA-555 • 1 page

Report on the Adcom GFA-555 amplifier. We examine its musical performance, check it out on our workbench, and comment on the mechanical and engineering design.

1988/12 • Akai bows out • one page

Akai decided that trying to make their products stand out was too much hassle, and decide to leave the US market.

1987/07 • Alaska • .5 pages

Nothing to do with audio, just a bit of travelogue snuck in. Alaska is big, very big. So are the grizzly bears.

1983/09 • Amplifier Distortions • 3 pages

All amps don't sound the same and here are some reasons why. We explore some common engineering mistakes.

1984/04 • Amplifier Power • 4.5 pages

How to tell real power from advertising specs by knowing just a little physics and using common sense. What are the federal tests measuring and how does it relate to the performance of the equipment.

1984/05 • Amplifier Power • 4 pages

The discussion of amplifier power, real versus measured, continues with examinations of fraud played on the consumer.

1989/10 • Answering Reader's Questions • 5 pages

We answer some readers questions concerning absolute polarity, phase distortion, the St-70, headphone amplifiers, CD players, and more.

1988/05 • Apogee Settlement • .4 pages

News of Apogee's settlement with Magnapan concerning the "borrowing" of patented design ideas.

1986/04 • April Fools • .5 pages

Follow our unique advice to get some nifty effects out of your system!

1984/03 • AR Turntable Rebuild Project • 3 pages

Instructions for a do-it-yourself project to tune, lube and damp your AR Turntable to get the best performance.

1988/01 • Ariston Q Deck • .75 pages

In our open letter to Ariston we note many flaws in the design and production of the Ariston Q Deck turntable that we find particularly concerning.

1990/10 • Atlanta Audio Society Reviews 400E Amp • 2.6 pages

The Atlanta Audio Society assesses our Mos-Fet 400E amplifier.

1990/02 • Audio Amateur Admits They Screwed Up • 1 page

Audio Amateur admits their St-70 review was flawed because of conflict of interest - the 'reviewer' was actually the manufacturer of a competitive product who kept this fact secret as he ran down his competition. We also get photos of his original work on our kit and note that it was so badly mis-wired that it could never have worked at all. The review was a complete lie and fabrication.

1989/12 • Audio Amateur Maligns Us • one page

We find out that Audio Amateur is going to publish a review on St-70s with a badly built AVA do-it-yourself kit built by an inept writer with the wrong parts and miswired that could damage our reputation, nothing stops these people from their wrongdoing. Some thoughts on the proper (and improper) ethics that exist today.

1988/11 • Audio Basics Gets National Attention • half column

The "Seven Shiny Pennies" editorial turned some heads and got favorable comments. Even an interview on National Public Radio to explain the problems of marketing.

1988/09 • Audio Basics Index 1982-1988 • 8 pages

A complete two part index of all Audio Basics issues from the first one published in January, 1982 through September, 1988. The first section is a condensed index sorted by topic name. The second part is sorted by issue date and contains a brief description of the topic.

1990/08 • Audio Basics Index 1982-1990 • 10 pages

A complete two part index of all Audio Basics issues from the first one published in January, 1982 through August, 1990. The first section is a condensed index sorted by topic name. The second part is sorted by issue date and contains a brief description of the topic.

1986/09 • Audio by Van Alstine • .25 pages

Notification and explanation of our name change from Jensens Stereo Shop to Audio by Van Alstine. We are truly sick of 3 am calls to fix Jensen car speakers.

1986/07 • Audio Design • 3.5 pages

What problems remain in the various components of the audio system and what can designers do to come closer to live? Examine problems in your listening room, loudspeakers, source material, and electronics.

1985/02 • Audio Design Goals • 4 pages

Should your system be a Xerox machine or create a sound of its own? How can we evaluate the performance and accuracy of equipment? Where should our intentions lie?

1991/01 • Audio Engineering vs Magic, Part 1 • 5.5 pages

We discuss the basic design goals of good audio engineering and the fallacies that audio magicians fall into when the engineering is not understood.

1991/02 • Audio Engineering vs Magic, Part 2 • 1.5 pages

Do audiophile grade parts make a difference in the sound of equipment? Of course, if the parts are cheap inductively wound caps, or the value of a part changes. There are always rational reasons for a perceived change.

1991/04 • Audio Engineering vs Magic, Part 3 • 2.5 pages

Further discussion of the basic issues in audio engineering including component compatibility.

1987/05 • Audio Magazine • 1 page

Get a hold of the June 1987 Audio and read Len Feldman's review of our Transcendence 250 amplifier. You'll like it.

1989/08 • Audio magazine • half page

Part of the October, 1988 Audio Basics is reprinted in Audio magazine. The editorial on speaker wire and connection cables earns praise from many readers and the hate of the esoteric wire purveyors.

1983/07 • Audio Myths • 3.5 pages

A continuation of "How to Listen", more great audio myths go down in flames.

1987/10 • Audio Technical Training • .8 pages

Is there anywhere the aspiring audiophile can go to get solid training in audio engineering? That's a tough question and there are many criteria to consider.

1986/07 • Audio Test Clinics • 1 page

Some hints for surviving audio test clinics and cutting through their propaganda.

1988/10 • Audiofest '88 • 1 page

Off to New Jersey for the highly advertised but underattended Audiofest 88. We show off the Fet-Valve products and impress many.

1989/11 • AVA Brokerage Service • one page

We announce the terms and conditions of our new Brokerage Service in which we help our clients re-sell older AVA equipment when they are buying new AVA equipment. Our service allows our clients to "trade-up" with maximum value retained in their old equipment and allows buyers to get our older equipment with an AVA warranty and the assurance that it meets our standards and is in solid working order.

1988/06 • AVA CA-150 Plus Integrated Amplifier • 1 page

A good look (including a digitized photo of the inside) of our CA-150 Plus control amplifier. This hand built, high quality unit employs a custom toroid power transformer and makes 150 watts per channel.

1988/04 • AVA CA-80 Integrated Amplifier • .5 pages

Introduction of our CA-80 control amplifier built in a Dyna SCA-80 or SCA-80Q chassis. As you can see from the digitized photo, this unit uses our Mos-Fet D series amplifier circuits and our Fet Three preamplifier cards.

1989/08 • AVA Hybrid Phase Inverter • one page

We announce our new very high quality free standing phase inverter that allows the use of any pair of common ground amplifiers as dual mono bridged amplifiers at triple their rated stereo power and at lower distortion and better separation. Its a major asset in any high end system and is the lowest cost way to get very high power.

1987/07 • AVA Integrated Amplifiers • .5 pages

Notice of running improvements in our SCA-50 based integrated amplifiers including five way binding posts, better power supply decoupling, and optional Fet Three Plus technology.

1991/02 • AVA Upgrade Prices • 1 page

Pricing information and listing of available retrofit and upgrade options for owners of older AVA equipment.

1985/07 • B&K ST-140 • 3.5 pages

We publish a letter from a founder of B&K that admits their guilt in stealing our amplifier design for use in the ST-140 and look at issues of idea theft in the industry and what manufacturers can do.

1987/04 • B&W "i" Loudspeakers • .5 pages

Mention of the 100i, 110i, 220i, and 330i improved loudspeakers and their sonic advancements.

1990/09 • B&W 310, 620, 630, and 640 • 1.6 pages

We discuss the new models from B&W - the DM310, 620, 630, 640. The 630 and 640 feature tunable bass with user adjustable ports and plugs.

1989/12 • B&W 801 Crossover Design Goof • four pages

We write to Stereophile documenting a design blunder in the B&W 801 Matrix crossover board layout. Two large inductors are positioned so that they interact magnetically and thus bass is dumped into the midrange speaker and midrange into the bass speaker. A minor do-it-yourself change to the crossover board greatly improves the sound quality of the speaker.

1990/01 • B&W 801 Matrix Crossover modifications • 2 pages

We go into more engineering detail on the 801 crossover design and suggested upgrades, including graphs of the frequency response before and after the changes.

1989/02 • B&W 801 Matrix Series II vs. 802 Matrix • one page

Comparing and contrasting the two models of B&W loudspeakers shows the 802 to be nothing special and a disappointment in relation to the outstanding 801. As Senator Bentsen would say to Senator Quayle, "you ain't no 801!"

1987/01 • B&W 802F Special Loudspeakers • .5 pages

Read about the significant improvements to the 802 that make this a winner of a speaker. Obsolete

1986/01 • B&W 808 Loudspeakers • 1 page

We encounter the ultimate in loudspeakers and the neighbors wonder. The 808s turn out to be the most dynamic and transparent speakers we have ever heard.

1989/06 • B&W Acoustitune Sub-Woofer • 1 page

If you want more bass, this Sub-Woofer is all you need to add to your B&W (or other) loudspeakers.

1989/08 • B&W Acoustitune Sub-Woofer • one page

We test the B&W sub-woofer in our sound lab and love it. Fills out the bass for most any B&W or other loudspeaker.

1985/11 • B&W Car Speakers • 1.5 pages

Overview of the B&W MASS car speakers giving their uses and features. We begin to think about the ultimate car sound system.

1987/11 • B&W CM-1 Loudspeakers • .5 pages

With our new graphics capabilities, we bring you a photo of the inside of a CM-1 enclosure so you can see the Matrix design cabinet.

1987/07 • B&W Concept 90 Loudspeakers • 1 page

Our review of the CM-1 and CM-2 loudspeakers with specifications. Hold on to your toes—these loudspeakers are outstanding.

1986/05 • B&W DM100 Crossover Project • 2.5 pages

A do-it-yourself project to improve the crossover on the the B&W DM100 loudspeakers. Complete instructions and a sketch provided.

1984/11 • B&W DM100 Loudspeakers • .5 pages

Evaluation and recommendation of the B&W two-way bookshelf speakers. Obsolete

1984/06 • B&W DM330 Loudspeakers • 1 page

Review of the very musical three-way system in the 100 line. Obsolete

1990/12 • B&W DM640 Crossover Update • 1.4

Instructions to upgrade the crossover in the DM640 loudspeaker to balance bass response to the rest of the speaker.

1991/03 • B&W DM640 Crossover Upgrade Report • 0.6 page

Report back on the upgraded crossover in use. People find that our taming of the bass is a very useful improvement on the speaker.

1987/03 • B&W E Series Loudspeakers • .5 pages

Don't be confused about the Matrix loudspeakers and the European E Series Matrix loudspeakers. We have the data for you.

1985/09 • B&W Factory • 4 pages

Off to England to explore the B&W factory and research centers for ourselves. Get a glimpse of how the British company works and develops new loudspeakers.

1986/02 • B&W Improvements • 1.5 pages

B&W releases several improved versions of their 100 line loudspeakers. We discuss the differences and improvements.

1988/04 • B&W Loudspeaker Updates • 1 page

Report on the updates to the Matrix series of loudspeakers and perspective of these models to the rest of the B&W line, including the 100i series loudspeakers, the CM-1 and CM-2, and the DM1600 and DM1800.

1986/08 • B&W Matrix 1 Loudspeakers • 1.5 pages

An in-depth review of the Matrix 1 loudspeakers in our studio. Learn all about these stunning little speakers.

1988/10 • B&W Matrix 3 Series II speakers • page

B&W latest speakers are the perfect combination of several different previous models of their speakers, retaining the best qualities of each. Definitely what a great high end speaker should be.

1990/09 • B&W Matrix 803 Crossover • 3.5 pages

Review of the B&W Matrix 803 and discussion of some of its sonic shortcomings. We analyze and redesign the crossover to critically damp the tweeter driver, getting the speaker to behave and sound very much like its much more expensive cousin, the 801.

1986/06 • B&W Matrix Loudspeakers • 1.5 pages

Report from the CES Show on the Matrix 1, Matrix 2, and Matrix 3 loudspeakers. Specs given along with our initial comments after hearing them at the show.

1986/09 • B&W Matrix Loudspeakers • 1 page

We complete the reviews of the Matrix line by examining the Matrix 2 and Matrix 3 loudspeakers.

1984/07 • B&W Tweeter Upgrade • 1.5 pages

The B&W TSX-80 tweeter for the 801 is simply stunning and is available as an upgrade kit. Obsolete

1991/04 • B&W V201 Stands • 1.3 pages

B&W now has a stand for the inexpensive V201 speakers that not only looks impressive but also improves the bass response by making the assembly much more massive.

1987/04 • B&W Videotape • .25 pages

Information on getting a videotape of the B&W factory and operation.

1986/04 • Bedini 25-25 Amplifier • 1 page

Sonic evaluation of the Bedini 25-25 amplifier and a look inside at the workmanship and construction.

1983/06 • Beta Hi-Fi Video Recorder • .5 pages

An early review of the Sony Beta Hi-Fi Video Recorder and some of its many capabilities.

1989/05 • Better Sounding Vacuum Tubes? • 4 pages

New tubes for the Super Pas Three make it sound better than ever before. What is a "better sounding" tube? A thorough engineering explanation tells why the tubes help so much.

1988/04 • Bi-Wiring • 2 pages

An audio basic look at the physics behind bi-wiring. How it works, what it does, and how to bi-wire your system are described in clear terms.

1991/09 • Bi-wiring Revisited • 2.5 pages

Discussion of bi-wiring and its advantages, particularly to the magic wire salesman. Simple math shows the effect of bi-wiring on the system and the loss of signal in the wires.

1990/10 • Bit-stream CD Players • .5 page

An initial look at the math governing bit-stream performance. Checking the sampling rate shows the bit-stream can only achieve 54 dB dynamic range.

1991/12 • Bitstream and DCC Limitations • 1 page

Reiteration of the math that shows Bitstream and DCC formats are inherently poor designs. If you can divide, you can see that DCC is only 4 bits.

1990/11 • Bitstream CD Players • .5 page

Update on bitstream in response to industry claims that the converters are really four-bit capacity.

1990/12 • Bitstream CD Players • 3.4 pages

In-depth treatment of the engineering assumptions and choices made in the Bitstream players. We find that the decisions made were to get equipment with good specs and not good sound.

1991/11 • Bitstream Editorial • 3 pages

Copy of the editorial written for CD Review that remains unpublished. The drawbacks of the Bitstream CD players are discussed along with the reasons they superficially look attractive.

1988/01 • Bowers, John • .25 pages

A small eulogy for a creative and talented man who did much to improve our knowledge of audio and engineering design.

1986/03 • Bridged Mono Amplifiers • 4 pages

Primer on reasons and techniques to operate amplifiers in the bridge mono mode. We examine the math and physics of the situation to get the best operation possible.

1988/12 • Cambridge Audio • half page

Cambridge Audio dies out but is saved by Hi Fi Markets Plc. Cambridge Audio is no relation to Cambridge Soundworks

1987/03 • Car Audio • 1 page

An update to our quest for the ultimate car stereo. The Hafler MA-1 and Sony Disc Jockey make a good start, read on for more.

1983/05 • Car Radio Power • 3 pages

A hard-headed look at the claims of car radios and their real world performance, backed by mathematical and physical truth and solid reasoning.

1988/04 • Car Radio Report • 1.5 pages

Another update in the quest for the ultimate car system. We examine the different sources available for car audio - audio cassette, FM, CD, and DAT - and consider useful features we would like to see in the future.

1982/03 • Cartridge Damping • 3 pages

Inexpensive plast-i-clay modeling clay makes a simple to execute but significant improvement in most phono cartridges.

1982/03 • Cartridge Loading • 4.5 pages

The mathematical formula for determining proper cartridge loading is provided along with an explanation of the formula and the reasons that proper loading is so important to your system. Guideline loads for many popular cartridges are given.

1986/09 • Carver Sound Matching • 1 page

Investigation of Carver's claims to match the sound of any amp. What, really, is his task and how sound matching works.

1986/02 • Cassette Recorders • 1 page

Problems with the audio cassette deck and what to do if you just have to get one.

1991/09 • Caution Regarding Interconnects • 0.3

Cautions about clamping or locking type interconnect cables and the damage they can cause to component jacks.

1987/10 • CBS Notch Filter • 1 page

More of the politics behind CBS's proposed anti-copy notch filter, the blocked DAT market, and the precedent of home VCR recording.

1987/11 • CBS Politics • .25 pages

News brief: CBS sold its record division to Sony. The implications of this sale on the notch-filter controversy can be profound.

1989/06 • CD Changers • .4 page

New Philips technology for the six disc CD player. We can install this into the Magnavox CDB586. [1990 Note - after a year's field experience, we don't recommend the disc changer. It is not as reliable as the single play models and not as convenient to use].

1991/12 • CD Player Bearing Plate • 0.4 page

Leaving CDs in a player when not in use can deform a bearing plate, causing tracking errors.

1988/10 • CD Player Design • one page

The Magnavox CDB582 is the most cost effective CD player available at this time for our new circuits. Discussion of oversampling and bit-decoders on the CD player.

1988/07 • CD Player Model Differences • 1 pages

Buyer beware! The models of CD players available now include ones with no digital filtering, no oversampling, 18 times oversampling, and digital circuits in a separate box. Which models are the most useful and cost-effective for you?

1987/09 • CD Service School • 1.5 pages

We go to Magnavox's technical school and learn about the "service technician" mentality and the industry thoughts on service, as well as new techniques to service the CD players to serve you better.

1990/07 • CD Storage System • .5 page

We find a great CD Storage System that fits in the same space as LP records.

1982/07 • Celestion Loudspeakers • 1 page

A review of the very nice, high definition Celestion SL-6 loudspeakers and a discussion of Celestion's ideas and techniques. Obsolete.

1982/06 • CES Show (Summer) • 8 pages

A review of the 1982 Summer CES show including mentions of compact disc technology, Sony, satellite receivers, Chicago restaurants, Acoustat speakers, B&W speakers, and more.

1986/06 • CES Show (Summer) • 5 pages

A review of the 1986 Chicago CES Show (Summer) including the interesting things we saw, heard, and ran across. New products from Hafler, B&W, Carver, DCM and other mentioned.

1987/06 • CES Show (Summer) • 3 pages

Coverage of the 1987 Chicago CES Show including DAT players, Super VHS, CD-V, new B&W loudspeakers, Magnavox CD players, and Vanessa's Audio Basics debut.

1984/02 • CES Show (Winter) • 4 pages

An overview of the products shown at the 1984 show. While most of the displays were the same old thing, we did find and report on some interesting products.

1988/01 • CES Show (Winter) • 2.5 pages

Report on the 1988 Winter CES Show in Las Vegas including the state of the long stalled DAT machines and glimpses of products from KEF, Fried, Telarc, Parsec, Carver and others. Also a report of the panel discussion Frank Van Alstine participated in.

1984/10 • Coleco Adam Computer • 1.5 pages

An evaluation of the Adam computer and its built-in word processor system. Obsolete

1987/02 • Compact Disc Cleaning • .5 pages

Don't do it unless you must, but if your CDs are really messed up, use proper cleaning techniques to keep from damaging them.

1986/09 • Compact Disc Compatibility Problems • 1 page

Be aware of possible incompatibilities between your CD player and your CDs that can cause load and read errors.

1983/05 • Compact Disc Players • 3 pages

Some early notes on the difficulty of obtaining and running a compact disc player. There are also some good reasons of why to be wary of first generation products in all cases.

1984/07 • Compact Disc Players • 2 pages

A look at emerging digital technology and the accompanying birth pains of the new media.

1985/06 • Compact Disc Players • 3 pages

We get our first CD player, a Magnavox FD1010, and comment on both the Magnavox and the state of digital audio.

1987/09 • Compact Disc Problems • 1 page

CDs are actually fragile and errors may occur where you may not expect them. Learn how to examine your discs for problems and how to protect them for a long playing life.

1985/08 • Compact Disc Reviews • .5 pages

Review of two Telarc releases.

1985/10 • Compact Disc Reviews • 1.5 pages

A review of several Telarc classical and various pop and jazz compact discs we have found to be well recorded and musical.

1985/11 • Compact Disc Reviews • .7 pages

We look at a few more of our compact discs and report on readers' favorites.

1986/05 • Compact Disc Reviews • .8 pages

Reviews of readers' CDs including the Nylons, Manhattan Transfer, Philip Glass, and Michael Hedges.

1986/12 • Compact Disc Reviews • 1 page

More of the CDs that we have found musical and well recorded. The list runs from classical to Broadway to jazz.

1987/11 • Compact Disc Reviews • 1 page

More CDs we have found to have both good production and good performances including more Telarc classical releases, GRP jazz, and DMP jazz. And yes, it is really true: The Best of Slim Whitman IS available on compact disc.

1988/03 • Compact Disc Reviews • .75 pages

Reviews of some of our readers' CDs including the Dixie Dregs, Leo Kottke, Ry Cooder, and more.

1988/11 • Compact Disc Reviews • half page

More favorite CD selections that we recommend you should have in your library.

1986/12 • Compact Discs, Library • .5 pages

Useful advice on a source for free CDs to audition.

1990/02 • Component Retrofit and Upgrade prices • 1 page

A complete list of which of our older equipment models can be updated to our newest series and what the upgrade costs are.

1984/02 • Computers • 2 pages

A look at the home computer market in one of it's lows. Obsolete

1990/04 • Connoisseur Belts • .4 page

A reader informs us of a supplier of belts to help keep his Connoisseur turntable running.

1988/05 • Consumer Satisfaction • .8 pages

What? Upset because your nifty car, computer, stereo equipment (whatever) is out of date? We know a sure way to never let this happen to you again. Yup.

1984/04 • Cramolin Red Contact Cleaner • .5 pages

Where to get Cramolin Red, an incredible contact control cleaner. This is the same cleaner we use in-house on all of our equipment.

1989/05 • Dahlquist LP1 Crossover Modification • 4 pages

We provide all the data, diagrams, and information so that you can build our famous LP1 crossover modification (strongly recommended in The Absolute Sound years ago) yourself. We don't build this in house any more so we have provided all the information you need, including suggestions from Dahlquist about upgrading the unit.

1987/06 • DAT Copy Protection • 2 pages

The government stands to push audio back into the dark ages with the "anti-copy chip" legislation. Find out why the scheme is flawed and how it will ruin ALL audio sources.

1989/08 • DAT Machine Accord Reached • half page

An agreement of what to do with the DAT machines has finally been reached. But severe limitations of the machine restrict its current usefulness. We advise you to wait a while before purchasing one.

1989/07 • DAT Machines revisited • one page

To tape or not to tape. The jury is still out regarding the problem of Digital Audio Tape Recorders, but Philips is designing a new system that should make everyone happy and end the controversy. [1990 Note: it didn't].

1988/03 • DAT Players • .5 pages

DAT machines are slowly becoming available in the U.S. Unfortunately, the Sony PCM 501ES is becoming harder to find as emphasis shifts to the DAT players.

1987/02 • DAT Politics • .5 pages

Why the fuss about copy-protection? Just what are the manufacturers of digital electronics afraid of?

1987/03 • DAT Technology • 1 page

How the DAT works, why Congress wants to ruin all music, and why copy protection isn't even necessary.

1991/04 • Denon CD Players • 1 page

Report on a CD player so unpleasant that it makes good equipment and loudspeakers sound muddy and colored.

1982/12 • Design Criteria • 3 pages

Given non-linearities of existing equipment and the coming of digital, this list of observations and conclusions provides a set of rational general criteria for audio design.

1983/06 • Digital Audio • 2 pages

Audiophiles claimed that digital was bad and ruined

music. We examine the digital controversy with a level head and logic.

1984/10 • Digital Audio • 1 page

We look at some of the problems of the off-shore compact disc players.

1985/07 • Digital Audio • 1 page

Our findings so far on the best equipment to use with digital sources. Obsolete

1987/09 • Digital Audio & Compact Disc Review • .5 pages

Frank Van Alstine, founder of AVA, wrote the guest editorial for the October 1987 edition of Digital Audio & Compact Disc Review magazine. Read his thoughts there on why all amplifiers don't sound the same.

1983/11 • Digital Audio RFI • 1 page

A warning about RFI in early CD players and the effect it can have on tuners and television. Fortunately obsolete

1987/11 • Digital Audio Sampling Rates • 1.5 pages

We go into the physics behind the 4x oversampling rates and the reasons the Philips original oversampling and filtering is superior to the Japanese imitation circuits.

1991/06 • Digital Compact Cassette • 2.2 pages

The DCC format is examined with regard to the information storage capacities and design assumptions.

1982/02 • Digital vs. Analog • .5 pages

Early comments on digital recording techniques that foreshadowed many of the later debates.

1990/04 • Don't put Poo Poo on Your CDs! • one page

The audioflakes are going wild suggesting new ways to "treat" your CDs to make them "sound better." We say "Don't do it!" and explain why the audioflakes are out of their minds once again.

1989/02 • Doubts about FMX FM Noise Reduction • one page

New FMX FM broadcasting will probably increase noise and distortion rather than reduce it.

1984/04 • Dow Corning 200 Fluid • .5 pages

A mention of the liquid silicon that is very useful in damping tonearms. We have found a source for small quantities.

1990/11 • Dyna FM-3 Tuner Maintainance • 3.8 pages

Do it yourself coverage of the FM-3 tuner. We tell you how to keep it running well and troubleshoot problems in the most likely areas.

1983/04 • Dyna Pas LED Pilot Light • 2 pages

Project to replace the incandescent bulb "on" light in a Dyna Pas and replace it with a LED, thus making several minor but useful improvements.

1988/05 • Dyna Pas Preamp Hum • 2.5 pages

Causes of hum in the PAS preamplifier and a variety of ways to combat the problem, including a description of a grounding error in very early stock Pas-2 pieces. Also, we give complete instructions and digitized photos showing how you can hang the transformer behind the unit to significantly reduce hum.

1986/12 • Dyna Pat-4 Preamp Rebuild Update • .25 pages

An update to the parts list of last month's project.

1986/11 • Dyna Pat-4 Rebuild Project • 7 pages

Complete instructions, sketches, and parts list for a do-it-yourself rebuild of the Dyna PAT-4 preamplifier. Following these plans will improve the dynamics, clarity, definition, and refinement of your unit.

1987/04 • Dyna Pat-5 Jack Set • .5 pages

Announcement of a kit for high quality, PC card mounted Switchcraft RCA jacks. You can install the kit yourself or add it as an option to a preamplifier we rebuild.

1984/08 • Dyna St-120 Rebuild • 10 pages

This do-it-yourself construction project allows you to build a power mos-fet power supply for your 120 and shows you how to properly troubleshoot the stock unit before you begin.

1988/12 • Dyna St-70 • one page

Rebirth of interest in the old St-70. Although the piece is getting old and tubes are difficult to find to replace, the St-70 still beats other low cost amplifiers because it has a wonderfully musical midrange.

1982/07 • Dyna St-70 Improvements • 8 pages

Instructions, parts lists, schematics, and theory are provided for a new circuit for the Dyna ST-70 amp. This bandpass filter limits the input frequency of the amplifier to the range it can easily handle, yielding very significant sonic improvements. Bring your amp back to life with this complete circuit.

1988/03 • Dyna St-70 Upgrade • 2 pages

This do-it-yourself project allows you to build your own replacement quad filter capacitor, thus providing your amplifier a much better power supply and getting better performance.

1987/04 • Echo-Muffs • 1 page

Review of and information about Echo-Muffs, acoustic foam collars for your loudspeakers. They will help a boxy room and cost less than coating your listening room with Sonex.

1985/11 • Equipment Operation • 1 page

Why it is not advisable to leave your equipment on all the time.

1984/06 • Equipment Survey • 5 pages

The results of the reader survey are presented as we look at readers' favorite equipment, music sources, and ideas about future technology.

1988/08 • Fet Kit Preamplifier Project • 12 pages

The complete Fet Kit preamplifier rebuild with step by step directions, schematic, parts list, board layouts, and chassis wiring diagrams. The directions are written for the Dynaco Pat-4 chassis specifically, but the boards fit into the Pat-5, the Crown IC-150 and the Hafler DH-101 and the project can be adapted to these chassis by experienced kit builders. Directions for these chassis will be written as demand dictates. A high end musical preamp at a bargain price. Boards and plans available separately, or as a complete do-it-yourself parts kit.

1987/02 • Fet Three CD Player • .5 pages

Introduction of our low cost and superb performance Fet Three and Fet Three Plus circuits for the Magnavox CD players.

1990/04 • Fet-3i Circuits • 0.4 page

Introducing the new Fet-3i Circuits for CD Player, AM/FM Tuner, and the Hafler DH-100

1990/03 • Fet-Valve Amplifiers • one page

New improvements to the Fet-Valve 200 and Fet-Valve 400 has increased the power. The 200 is now the Fet-Valve 300 with 150 watts per channel. The 400 is now the Fet-Valve 500 with 250 watts per channel. We also introduce the new Fet-Valve 300i. Low cost upgrades (some free) are available.

1988/12 • Fet-Valve CD Player • half page

Our Fet-Valve CD player will attend the winter CES show in the hands of our friends at Swan's Speaker Systems.

1989/03 • Fet-Valve CD Player • .3 page

Our Fet-Valve CD Player will be at the April Stereophile Show in care of our good friends, The Bocks.

1985/01 • Fluke 27 Multimeter • 1 page

Review of and report on the Fluke 27 Multimeter test

instrument. Obsolete

1984/04 • Fluke 75 Multimeter • .5 pages

A mention of the Fluke precision Multimeters and some sources.

1990/09 • Free Compact Discs • 0.6 page

CD Review magazine offers superb value to the music lover with its monthly "Almost Free" CDs. Albums and samplers from various companies are made available for just the cost of postage and handling.

1986/09 • Fuses (Power Passed) • .5 pages

The formula to determine the power passed by fuses so you can protect your equipment appropriately.

1989/01 • Got a Mac? • half column

If you have a Macintosh computer, we will give you a Hypercard stack of the completed AB index. Just send us a floppy disk.

1991/10 • Grado Headphone Follow-Up • 0.5 pages

Optional outer caps to isolate phones are being developed. Allow the earpiece foam some break-in time for the most comfort.

1991/03 • Grado headphones • .4 page

Initial report of the very pleasant and natural sounding Grado headphones.

1991/04 • Grado Headphones • 0.5 page

Update on the Signature and standard lines of Grado headphones.

1991/07 • Grado Headphones • 0.3 page

Followup on the Grado headphones - we should be receiving an evaluation sample shortly.

1991/08 • Grado SR-200 Headphones • 1 page

Grado SR-200 headphones are very musical, transparent and high definition. We finally get production units in and review them.

1991/10 • Great Tonearm Giveaway Winning Letter • 1.25 pages

The letter that won the SEAC tonearm was printed for all to enjoy.

1986/09 • Hafler MA-1 Mobile Amplifier • 1 page

Test reports and review of Hafler's discrete mos-fet car amplifier. If you want a quality car system, strongly consider this amp.

1988/07 • Hafler Model 300 Loudspeakers • 2 pages

Initial comments and review of the new Hafler Model 300 loudspeakers. These very musical, well-made, and attractive (check out the photo) speakers are a credit to Hafler.

1987/01 • Hafler XL-280 Amplifier • .5 pages

Introduction to the Hafler XL-280 high current amplifier.

1988/07 • Hafler XL-600 Amplifier • 2 pages

Examination of the new, high current Hafler XL-600 amplifier and some advice on using any amplifier with a low impedance load (watch your fusing). We note the useful improvements of the XL-600 over the earlier DH-500.

1986/02 • Harman-Kardon 192 • .5 pages

Review of a not so hot cassette deck from H-K. Obsolete

1984/05 • Harman-Kardon T-25 Turntable • .5 pages

Description of the work we do to a H-K Turntable to make it free from hum and AC fields. Obsolete

1983/09 • Harman-Kardon T-60 Turntable • .5 pages

Test reports on a very nice H-K turntable. Obsolete

1985/12 • Harman-Kardon T-60 Turntable Rebuild • 4 pages

Complete instructions to build your own external power supply for the Harman-Kardon T-60 turntable, thereby isolating your turntable from hum fields and mechanical vibrations.

1986/10 • Harman-Kardon T-60 Update • .5 pages

An update to the instructions for the H-K T-60 turntable upgrade project detailed in 12/85. The new instructions work with recent variations in the H-K power supply card.

1985/06 • Harman-Kardon Turntables • 1 page

A few comments on improving the performance of the turntables with liquid silicon and the difference between the models.

1989/07 • Headphone Amplifier • half page

Our new Headphone amplifier board will fit the Pat-5, Pat-4, and DH-110 chassis, or can be completed as a separate component. either way, your headphones will be driven better than ever before.

1987/06 • Headphone Junction Box Project • 1 page

Instructions and sketch for a do-it-yourself headphone junction box. This box lets you properly drive your headphones off your amplifier and switch between speakers and headphone. We even give you the Radio Shack catalog numbers.

1989/06 • High Definition TV • 4 pages

The newest thing at the CES show was the revelation of High Definition TV. The much sharper screen and over quality of HDTV should eliminate all those mini-mall movie theaters all over the country. But there still are some problems that need to be resolved before HDTV can be utilized.

1989/04 • High Fidelity in the Soviet Union • 4 pages

We take a 3 week vacation to the Soviet Union and Eastern European countries to discover that they are far beyond the Western cultures in terms of products and available of high fidelity equipment as compared to the western cultures. Many comparisons between our culture in terms of freedom, culture, art, and other important issues. Why can one film a performance of the Bolshoi Ballet with no problem and be kicked out of any theater in the US if you carry a camcorder?

1987/09 • Home Recording Rights Coalition • .3 pages

Some people out there care that the government is trying to legislate audio back to 1900, and they are trying to stop that. Help them save hi-fi.

1982/08 • How to Beat the Stereo Rip-Off • 1 page

A review of the book *How to Beat the Stereo Rip-Off* by Barnet Feingold. This book is an essential manual for surviving the audio world.

1983/06 • How to Listen • 4.5 pages

The "golden-ear" myth is debunked and we consider the art of listening. Everyone can hear, the key is knowing what to listen to. Get down to fact and be free of the mystics.

1991/07 • Hughes SRS Processor • 0.7 pages

The Hughes Surround Sound processor is a useful piece of equipment, but not with the op-amps used in the final production unit. We were able to make it better than the prototype with a different choice in devices. We will offer the revised processor.

1991/12 • If Only Our Directions Were Heeded • 2.5 pages

Errors happen. But trying to hide them will only increase your repair bill. A troubleshooting trip through a piece to the shop demonstrated audio archaeology, and the work that hiding errors will make for the technician. He won't be fooled, and the repair bill will show the extra time to hunt.

1983/08 • Impedance • 3 pages

A basic discussion of impedance and its application to the audio world.

1987/04 • Input Functions • 2 pages

Back to the basics of audio hookup. We cover phono and line level sources, discussing the differences between

their functions and the various hook-up possibilities.

1987/03 • Interconnect Cables • 2 pages

Because "magic" cable still abounds, we once again delve down to the realm of rationality and look at the physics behind interconnect wire.

1991/07 • Kit Instruction Manuals • 0.5 page

Announcement of upgraded kit instructions available for the Super Pas Three, Super Seventy, Omega Pat-5, and Omega Pat-4.

1985/08 • Kodak 8mm VCR • 4 pages

An in-depth look at the Kodak PCM system with its audio and video record features. We look at the PCM format and its audio fidelity.

1985/07 • Kodak 8mm Video • .25 pages

We received the Kodak 8mm camcorder and overview its video and audio capacities.

1986/08 • Kodak 8mm Video • .5 pages

Warnings about the Kodak PCM units with automatic level controls and their use for audio.

1989/01 • Kyocera Electronics bows out • half column

Another Japanese company decides to get out of the US market. Now if only Toshiba would follow suit.

1987/02 • Live Music • .5 pages

After hearing the sweet and lucid sound of the Saint Paul Chamber Orchestra, it's time to evaluate once again the performance of any electronics.

1986/07 • Live Music Characteristics • 1 page

Just what does live music sound like? How can we describe what we hear so we can compare it to our audio system?

1990/05 • Live Music is not Always the Best • one page

We attend the musical "Chess" at the Ordway Music Theater and are dismayed at the ways in which a musical can be destroyed! Wireless microphones and distortion generating boom-box PA speakers may please some people's ears, but not ours. We explain about the design of a music theater, and explain what went wrong at this performance.

1990/06 • Live Music is Possible, if You Know Where to Look • 2 pages

Frank Jr. continues the quest to find a theater that allows the performers to "speak" for themselves instead of through distorting wireless microphones. This is possible, if you know which theaters to attend.

1990/07 • Live Music, More Thoughts • 2 pages

Readers send us other editorials concerned with the "electrification" of live music.

1984/10 • Live versus Loudspeaker • 1 page

Beware of demonstrations in which the system sounds as good as the live music. Is the live music actually playing well?

1983/01 • Longhorn Grado • .5 pages

A caution about making your stabilizer bar physically too large to fit your turntable.

1989/04 • Longhorn Grado Z • half page

Another improved Grado phono cartridge allows us to further upgrade our Longhorn rebuild and give you better music from disc than ever before, and still at just \$99.00.

1982/05 • Longhorn Response • 2 pages

A sampling of the response to the Longhorn Stabilizer bar outlined in 04/1982. Reports show that many people have been able to cure tracking problems and improve sonic performance with the stabilizer.

1982/04 • Longhorn Stabilizer Project • 4 pages

Complete instructions for building a Longhorn stabilizer bar for any phono cartridge allow you to make a very large improvement in your record playback system with minimal cost.

1987/02 • Loudspeaker Bracing • 1.5 pages

Instructions for making internal braces for your loudspeakers to reduce cabinet reflections and get a cleaner sound.

1982/01 • Loudspeaker Damping • 5 pages

How to inexpensively reduce speaker cabinet and frame resonances using plast-i-clay modeling compound. This easy, do-it-yourself project makes many inexpensive and some expensive loudspeakers sound much clearer.

1983/01 • Loudspeaker Evaluation • 6 pages

How to tell when you should, and should not, purchase new loudspeakers and an introduction to the art of evaluating speakers. Learn what you need to make intelligent choices with your audio dollar.

1983/02 • Loudspeaker Evaluation • 6.5 pages

The evaluation of loudspeaker design continues with the pros and cons of electrostatic, electromagnetic, horn, ceramic, and Bose direct reflecting loudspeaker systems.

1983/03 • Loudspeaker Evaluation • 7 pages

Everything you wanted to know about bass but didn't know what to ask. What bass actually is, as well as what you need to reproduce it well and how sub-woofers relate to these questions.

1983/04 • Loudspeaker Evaluation • 5.5 pages

The several types of cabinet construction, including infinite baffle, transmission line, ported, and several others, are noted and explained.

1988/05 • Low Noise Operation • 1 page

Some advice on getting lower noise in your preamplifier. We explain how you can do it and why it works.

1987/09 • Macintosh Computers • .5 pages

We have a new Mac SE and a new look now that we have finally found a computer system for publishing. We hope to find some art to add graphics to our publication.

1984/04 • Magic Cable • .5 pages

Selling \$.27/foot cable for \$6.00/foot is altruistic? We're baffled too as we examine more claims of magic.

1989/07 • Magic speaker wire revisited • 2 pages

R. A. Greiner reports in *Audio* magazine the true mathematical qualities of magic speaker wire, and the math wins. But we still have some points to raise about the concept of magic wire.

1986/12 • Magnavox CD Players • 1 page

We expound on last month's warning about the 650 and describe the difference in transport assemblies, physical space, and internal cost between the 650 and 460.

1986/11 • Magnavox CDB460 CD Player • .25 pages

Notice of our standard CD player for rebuild, the Magnavox 460. This CD player does a lot of things very right. Obsolete

1987/07 • Magnavox CDB465 CD Player • .25 pages

Initial investigations say that the 465 is useful with our circuits and has some nice creature comforts to boot.

1988/01 • Magnavox CDB470 CD Player • .25 pages

Avoid the 470. It's lack of the Philips digital filter chip set makes this an all-around inferior machine.

1989/09 • Magnavox CDB582 CD player • half column

If you can not find the CDB582 model Magnavox CD player, we have a stock of them that you can purchase.

1986/11 • Magnavox CDB650 CD Player • .5 pages

Warning about a model we cannot use for our rebuild circuits.

1987/09 • Magnavox Multiple Disc CD Player • 1 page

Not all Magnavox CD players are Philips machines. At least one, the multiple disc unit, is a Pioneer. Warning: This CD player does not have Philips superior chip sets.

1985/12 • McArthur, Gregg • 2 pages

A visit to an audiophile gathering at our field representative's home and the various equipment we encountered there.

1991/12 • Metal Speaker Posts • 0.3 page

Don't use big metal speaker posts! AC wiring errors in your home can put lethal voltages across the posts.

1985/10 • Minnesota Audio Society • 1.5 pages

We knock the socks off of the MAS with our new preamplifier, in spite of those meeting hall blues.

1987/10 • Minnesota Twins • .3 pages

Yippee—we won the World Series and the Twins did audio a favor by giving us a demonstration of 120 dB. Cover your ears and think if you really want 120 dB in your living room.

1984/02 • Mission 70 MK II Loudspeakers • 1 page

Our test reports and review of the clean and dynamic Mission speakers. Obsolete

1985/08 • Mission 7000R • 1.5 pages

We review the Mission 7000R CD player and compare it to the Magnavox 2040. Obsolete

1985/03 • Mobil Delvac 1 Motor Oil • .3 pages

A small note about a good, high-performance synthetic motor oil.

1983/11 • Mobile Fidelity Records • 1.5 pages

Some of our favorite MFSL recordings. The reviews apply to the compact disc versions as well.

1986/05 • Mod Squad CD Damper • .5 pages

Evaluation of a gadget that supposedly reduces tracking errors.

1990/02 • More on the 801 Crossover • 2 pages

We hear from Tom Lewitt of New Zealand regarding the 801 crossover blunders. He confirms our advice and suggests even more detailed refinements and supplies a photo of his version of the 801 crossover board.

1985/10 • Mos-Fet 120C Amplifier • .5 pages

Introduction of the new Mos-Fet 120C amplifier built in a Dyna ST-120 chassis. Obsolete

1988/01 • Mos-Fet 120C Amplifier • 1 page

Notice of the availability of several used chassis Mos-Fet 120C amplifiers along with digitized photos of the 120C circuit sets. Obsolete

1985/02 • Mos-Fet 150B Amplifier • .5 pages

Introduction of our own circuits in a Hafler DH-120 chassis. Obsolete

1986/12 • Mos-Fet 400C Amplifier • 1.25 pages

Introduction of our Mos-Fet C circuits into the Dyna ST-400, 410, and 416 chassis. Get high power performance for a low budget. Obsolete

1988/03 • Mos-Fet D Series Amplifier • .75 pages

Introduction of our new D Series Amplifiers for the Dyna and Hafler chassis. The Mos-Fet 120D, 80D, 240D, 280D, 250D, 400D, 500D and CA-50 Control Amplifier are described along with our new generation circuit improvements.

1990/02 • Mos-Fet E Series Amp • 1 page

Our new affordable amplifiers with an increased power supply offer a wider dynamic range, deeper bass, and a clear faithfulness to the music. The New E circuits are available for the Mos-Fet 240E, 250E, 280E, 400E, 500E, and 600E.

1990/04 • Motorola Engineers and the 801 • .4 page

Some Motorola engineers call us to confirm that B&W Matrix 801 crossover changes we suggested do improve speaker and flatten the frequency response.

1986/02 • Music Characteristics • 1.5 pages

A vocabulary lesson in which terms such as range, balance, vowel tone colorations, and others are defined, explained, and put in perspective.

1986/04 • Music Characteristics • 2 pages

The discussion of audio system sounds continues (from 1986/02) with treatment of dynamic range, definition, musical character, and more.

1988/05 • National LH0002CN • .7 pages

Only ten years behind the times, Walt Jung of the Audio Amateur "discovers" the National Hybrid LH0002CN device can be used in audio applications. Look at some of his other great "inventions."

1989/02 • Neat Stuff from Radio Shack • 1 page

New fun products from Radio Shack. A CD to automobile cassette deck adaptor and a Universal Remote Control.

1989/09 • New B&W speakers • one page

B&W has introduced two new very low cost high fidelity loudspeakers to their collection. The V201 and the V202 offer the true B&W sonic performance and construction quality you expect.

1988/11 • New Longhorn Grado Z • half page

Our newest phono cartridge tracks better, is more dynamic and detailed, and is still inexpensive.

1990/08 • No Phono Preamp isn't a good idea • 1 page

The pitfalls of buying a preamp without a phono stage. You might find its resale value is poor and that you gave away too much.

1988/03 • Notch Filter • .5 pages

In a victory for all lovers of music, the National Bureau of Standards has decided that the proposed anti-copy notch filter noticeably distorts music.

1987/01 • Null and Distortion Test • 1 page

Is nulling necessarily an important characteristic of an amplifier? What is the null test? Does it prove anything?

1984/07 • Numerical Analysis • 1 page

As we use our H-P minicomputer to analyze circuits, we find that number crunching can be exciting. Having to divide 1,000,000 by .00000000012 is just one of the many joys. Don't try this at home.

1985/04 • Numerical Analysis • 4 pages

A stereo system is rather like the system of resonances and pulls that you find in an automobile. We can model this system with computer programs, and we tell about our model and the work we are doing with it.

1985/05 • Numerical Analysis • 2 pages

We describe more of the computer system we employ to analyze electrical circuits in order to make more linear components.

1984/03 • Odds and Ends • 2 pages

We cover several short topics including TV filters, Noble volume controls, B&W tweeters, and more.

1985/04 • Odds and Ends • 2 pages

A variety of short topics including the destruction of Harry Pearson's home, hi-fi ambulances, Joe Grado, the White House equipment, and "Grand Prix" awards.

1987/05 • Odds and Ends • 1.5 pages

We look ahead to the CES show, upcoming B&W speakers, DAT players, and the prospect of audio in Alaska.

1990/05 • Omega Circuits • half page

Further ideas and the concepts of the new improved Omega circuits.

1991/07 • Omega Pat-4 Rebuild Kit Plans • 8 pages

These are the complete instructions for the AVA do it yourself Omega Pat-4 rebuild kit. The instructions, schematics, parts list and drawings are included. Fol-

lowing these instructions when using our PC card and components will turn the old Pat-4 into a state of the art preamplifier.

1991/02 • Omega Power Amplifiers • 2.5 pages

Introduction and discussion of the AVA Omega power amplifier line.

1990/04 • Omega Series • 2.5 pages

Introducing the new Audio by Van Alstine Omega Series circuits – major low cost improvements for our solid state preamps, CD players, Tuners, and even a major upgrade for the Super Pas Three vacuum tube preamp. The best sounding affordable audio circuits yet!

1991/09 • Omega Upgrade Instructions • 1 page

List of parts and diagrams of circuit changes to upgrade Fet Kit preamps to Omega circuits. The kit containing all parts is only \$40.

1987/02 • Optical Coupling • 1 page

Instead of being swayed by impressive terms, we logically examine optical coupling and give our report on the technology.

1985/10 • Original Designers • .25 pages

Several good reasons to buy equipment from the original designer and not from licensees.

1989/02 • Our Patent is Issued. • .25 column

We got a US Patent for our Improved Forward Transimpedance Amplifier.

1988/12 • Our Satisfaction Guarantee • half column

We offer a 100% satisfaction Guarantee and mean it. Only 2 Longhorn Grados were returned to us in all of 1988.

1989/02 • Panasonic • half column

Panasonic is still in some trouble over their price fixing problems. We had some more thoughts about the issue.

1989/01 • Panasonic and Price-Fixing • one page

Panasonic is offering small rebates on some equipment after being accused of "price fixing." We offer some views on the subject of price fixing and fair trade.

1986/01 • Parsec FM Antenna • .7 pages

We find and review an indoor amplified FM antenna that works very nicely and may help solve your reception problems.

1988/07 • Parsec LS-4 FM Antenna • .5 pages

Review of the Parsec indoor powered FM antenna and its uses for better FM reception.

1990/06 • Parsec Wave Catcher • one page

The new passive Wave Catcher improves both AM and FM reception at low cost. It is an effective, and inexpensive little antenna that can do wonders for your radio reception.

1987/11 • Parts Sources • .5 pages

Some good sources of parts in small quantities for the audio hobbyist are listed with addresses and specialties.

1991/03 • Pas Selector Switch Rewiring • 4 pages

Do it yourself instructions and diagrams for rewiring the Dyna Pas preamplifier's original selector switch to bring up Special and Tape Head as line level inputs.

1983/07 • Paul Jensen • 1 page

A bit of history concerning Paul Jensen, founder of Jensens Stereo Shop, "Sonic Eight" loudspeakers and '57 Chevies.

1987/12 • Pauline the Puma • .5 pages

Meet Pauline the Puma, our lovable chief inspector. She peeps in the port of every B&W 801 Matrix to insure that all is clear.

1985/11 • PCM Audio • 1 page

We foreshadow the DAT decks by examining the possibilities and applications for PCM audio recorders.

1983/13 • Personal Computers • 8 pages

This bonus issue discusses the personal computer market in 1983, but also provides some very solid guideline to computer purchases even now.

1985/03 • Personal Computers • 3 pages

With the demise of our IBM typewriter, we are forced into the home computer market. Come with us on a frightening tale of computer technology and marketing.

1987/07 • Phase Inverter • .25 pages

Introduction of our AVA Phase Inverter based on Fet Three Plus technology. If you want to bridge mono, do it properly with our high definition circuits that install in your preamplifier.

1988/03 • Phase Inverter • .5 pages

Use our phase inverter board with just one amplifier to improve your system's power, imaging and dynamics.

1990/11 • Philips CD Players • 3 pages

Report on choosing the best CD players out of the Philips line and avoiding the promotional models that do not contain their best technology. Also discusses the CDM4 transport.

1984/11 • Phono Cartridge Set-Up • 3 pages

Complete guide and step-by step instructions to properly set up your cartridge for optimum results.

1991/09 • Plug in Stereo Review • 0.5 page

Mention of a plug from Julian Hirsch of Stereo Review.

1984/05 • Polarized Capacitors • 1.5 pages

Beware of capacitors that produce nasty strange resonances in your system.

1991/12 • Power Line Filters • 0.3 page

Recommendations for a rational power line filter to protect audio and video equipment.

1987/01 • Power Supply Upgrade • 4 pages

Instructions and engineering background for a do-it-yourself improvement to the power supply of nearly any AVA amplifier that improves clarity and yields lower noise.

1983/09 • Precision Parts • 2 pages

Are 1% parts better than 10%? How does one judge? Learn about part production and labeling.

1992/01 • The 1992 Puma Family Calendar

No, this is not part of Audio Basics. It is an annual project my kids and I do with the camcorder, a video frame grabber in our computer, and with the cooperation of our large stuffed animal collection. This 13 page illustrated and spiral bound collectors item calendar is available to you for \$10.00 in black and white (with grey scale photos on each page) or for \$20.00 in gorgeous living color (turned out on our DeskWriter C). Add \$3.00 for shipping.

1987/09 • Q Notch Filters • .5 pages

What is Q and why are steep filters bad? We graphically demonstrate the problems with high Q filters.

1989/01 • Read All the Instructions First! • half column

A cute story about what can happen when you don't read all of the instructions first before assembly your speaker stands.

1990/10 • Reader's Letter • 3.5

Letter from one of our readers discussing the social context of audio and how difficult it is for innovations to get past the agenda of the audio world.

1986/01 • Reader's Letters • 2 pages

We share some of our reader mail with you.

1987/02 • Reading Between the Lines • 1 page

Please don't do it, as it makes life harder for everyone. We respond to reader mail that involves this problem.

1985/01 • Record Care • 2.5 pages

We examine some of the record cleaning products available on the market and strategies for record cleaning to insure long record life.

1982/05 • Record Mat • .3 pages

Review of the TRI-PAD record mat and Radio Shack record clamp. Obsolete.

1983/11 • Record Reviews • 3 pages

A look at some of the American Gramophone, Nautilus, Sheffield Lab, and other audiophile recordings.

1988/09 • Robert W. Fulton 1925-1988 • .5 pages

An eulogy for this extraordinary, kind, and talented audio designer who taught most of the high end community how to listen and built loudspeakers that were so musical to listen to.

1988/01 • Rockford-Fosgate • .25 pages

Rockford-Fosgate Company has purchased Hafler with promising future prospects.

1988/11 • Room Damping • many pages

What to do when bad room characteristics distort the quality of music playback. Acoustifoam can help and other materials are discussed too. The foam damping material keeps irritating reflections of sound from destroying the pure quality of the music and "tames" any listening room when used and placed appropriately, and is reasonably priced. Also includes tips on what are necessary characteristics for a good listening room.

1991/12 • Sanus Loudspeaker Stands • 1 page

Sanus Systems makes reasonably priced attractive loudspeaker stands. Phred models with the S17 and S24 stands shown with B&W loudspeakers.

1989/01 • Selector Switch Project • 5 pages

Complete diagrams and explanation on this do-it-yourself kit for the Selector Switch. Written for the Dyna Pas chassis, and the Dyna Pat-4, Pat-5, SCA-50 and SCA-80.

1987/07 • Sennheiser Headphones • 1.5 pages

The Van Alstine teenagers evaluate 5 pairs of Sennheiser headphones. They run from very nice to "bletch," so be aware as you select a model.

1986/05 • Sensible Sound • 1 page

Discussion of the underground audio magazines and their observable editorial policies.

1989/11 • Service Contracts • 2.5 pages

Are service contracts pure profit for the manufacturers and salesman or can they be of some use? We explore this little understand concept and other some ideas.

1986/09 • Service Data • .5 pages

Just an anecdote about a smoke alarm and a suspect amplifier to drive in the fact that we need good data to give you good service.

1987/03 • Service Woes • 1 page

Given that we cannot read minds and cannot properly service your equipment if you give bad data, please help us. If you read your instruction manual, double- and triple-check your connections and follow our other advice, you can make life easy for yourself and your servicemen.

1988/10 • Seven Shiny Pennies vs. One Old Quarter • several pages

The problems with "marketing" revisited. Why can't producers tell the actual truth about the product? Is it easier to use magic and gimmicks than to make a good product?

1984/12 • Sharp PA-1000 Typewriter • 1 page

We evaluate Sharp's electronic memory typewriter. This early version word-processor shows the state of the art at the time. Obsolete

1985/03 • Sharp RT-100 Cassette Deck • .7 pages

We found a cheap, simple, and reasonably good cassette

deck at Best Buys. Obsolete

1985/10 • Solid State Rectifier • 1 page

A discussion of why solid state rectifiers and vacuum tube preamplifiers don't get along.

1986/10 • Sony EV-S700U 8mm Deck • 1 page

Evaluation of the Sony 8mm video deck with record level controls. Consider it for a replacement for your audio cassette system.

1986/04 • Sony PCM 501 ES • 1 page

Review of the Sony PCM digital processor and a video recorder to get very very nice sound.

1985/11 • Sony PCM 501ES • .25 pages

Mention of the Sony A to D, D to A digital processor that works with any VCR.

1986/09 • Sony PCM 501ES • .5 pages

News about Sony's excellent digital processor and ways to prevent recording level overloads.

1985/12 • Sony Super-Beta Hi-Fi VCR • 1 page

Evaluation of the very nice Super-Beta video and Hi-Fi audio video cassette recorder. The Sony is ideally suited to replace your conventional audio tape deck.

1986/05 • Sorbothane Tube Dampers • .5 pages

Evaluation of Audioquest's Sorbothane tube dampers and isolation feet, tried in our Super-Pas Two preamplifier and other products.

1990/02 • Sound Ideas • one page

A writer who owns a piece of our equipment tells his audience about how the piece stood up to his accidental mis-wiring. A day-brightening article for us.

1985/10 • SPARS Code • .5 pages

An explanation of the SPARS code used in identifying compact discs.

1982/08 • Speaker Cable • 5 pages

The myths of speaker cable are examined with rational engineering. This guide to the bad things that unreliable wire can do to your system allows you to isolate and solve problems with interconnects.

1989/04 • Spectrum 108A Loudspeakers • one page

We sample a new brand of small loudspeaker and are pleasantly surprised by its quality. Good, full spectrum sound make these low-cost speakers a good affordable deal to anyone on a smaller budget.

1986/10 • Spike Feet • 2 pages

The physics behind spike feet (tip-toes) and some items to consider when deciding if you should use them.

1991/03 • ST-120 Power Transformers • 0.5 page

We have used stock Dyna St-120 transformers available and tell how to get one.

1990/07 • St-70 6GH8A Driver Tube Upgrade • 1 page

Complete do it yourself plans to convert your St-70 amp from the now discontinued 7199 driver tube to the inexpensive, available, and much better 6GH8A tube. We recommend you do it now and include these tubes at no extra cost in all Super Seventy kits sold now.

1989/08 • St-70 Input and Output Jack Set Kit • one page

New input and output jack set kit is available for the St-70 with gold RCA jacks and heavy duty 5-way binding post output jacks.

1989/08 • St-70 Power Transformer • half column

We are still working on the new power transformer for the St-70.

1989/09 • St-70 Power Transformer • half page

The new power transformer is now available. It will help your St-70 run much cooler, eliminates the 5AR4 tube, can be wired for 220 volt operation, provides more power, and sounds better.



1989/02 • St-70 Upgrade coming soon • one column

Due to the rebirth of interest in the St-70, we will have some new improvements to make your St-70 even better yet!

1989/02 • Stereo Cost Cutters • 1 page

John Peterson, owner of SCC, talks about his ideas and philosophies regarding music equipment

1986/08 • Stereophile • 1 page

Adventures of the underground press at the 1986 Chicago CES Show.

1987/12 • Stereophile • 1 page

A few comments about Stereophile's review of the B&W 801 Matrix Series Two Loudspeakers and the sonic differences between a string bass and a cello.

1988/12 • Stereophile Takes a Second look at Super Pas 3 • one page

Stereophile does a closer inspection of our Super Pas Three to check on all technical information. Another favorable review.

1991/05 • Summer CES Show 1991 • 9.5 pages

This special double issue (May-June) covers the 1991 SCES Show. Equipment and displays noted include the Hughes Sound Retrieval System, Magnavox Photo CD, Dyna St-70, HDTV, B&W, Dahlquist, CD Review, Vision Acoustics, and many others.

1989/03 • Super 70 Construction Kit • 11 pages

Back by popular demand, all the drawings, instructions, and diagrams necessary for our much improved Super Seventy kit including a new mother board and new B+ and bias supplies.

1991/11 • Super Pas Four Kit • 1.7 pages

Description of the new Super Pas Four preamplifier kit and a few sample illustrations from the instruction manual showing the layout of the unit.

1991/10 • Super Pas Four Product Announcement • 2 pages

Announcement of the new AVA Super Pas Four preamplifier available as new wired units or kits. The all new hybrid circuits give astonishing transparency with very low distortion and wide bandwidth.

1988/02 • Super Pas Three Power Supply Project • 14 pages

Complete instructions, parts lists, schematics and photos provided for a do-it-yourself project to greatly enhance the performance of your Super Pas or Super Pas Two preamplifier. This new power supply will bring your Super Pas to a level of performance very close to our current generation in-house Super Pas Three circuits.

1988/03 • Super Pas Three Power Supply Update • .5 pages

We fix a typo and suggest an alternate method of doing one instruction in this update to last month's project.

1990/05 • Super Pas three Power Supply Upgrade • 1.5 pages

We also describe a simple do-it-yourself upgrade to the Super Pas Three to help reduce residual noise with some rewiring.

1988/10 • Super Pas Three Rebuild-Kit • half-page

The new Pas Three Rebuild-Kit is available. The unit works well and received warm praise from John Atkinson at Stereophile.

1987/07 • Super Pas Two Power Supply • .5 pages

We have a new power supply for the Super Pas Two that is also available in kit form for both the stock Pas and the Super Pas rebuild project. This very stiff power supply makes the preamplifier quieter, clearer, and more dynamic.

1989/07 • Super Seventy • 2 pages

The Super Seventy lives on. We keep the price of the

rebuild kit to \$150 for AB subscribers. We are also working on new improvements to have the Seventy even better yet.

1990/05 • Super Seventy Power Supply Upgrade • 1 page

We include an instruction page to help you increase the voltage rating in your power supply to avoid power surges from shorting out your system.

1991/09 • Super-70i Instruction Correction • 0.8 page

Revised circuit diagram showing view of circuit board from the correct side, correcting the view shown in the 1991/08 Audio Basics.

1991/08 • Super-70i Rebuild Instructions • 7 pages

Do-it-yourself project for the Super 70i amplifier in the Dyna St-70 chassis. Contains complete instructions, schematics, diagrams and parts lists. The circuit will provide much better biasing of the input stage, giving better bass, definition, imaging and dynamic range.

1986/03 • Super-Fet PAT-4 Preamplifier • 1 page

Introduction of our musical Super-Fet circuits in the Dyna PAT-4 chassis. Obsolete

1984/10 • Super-Fet TL071 Upgrade • 1 page

Description of a significant IC upgrade to our Super-Fet preamplifiers.

1986/08 • Super-Pas Audio Circuit Upgrade • 2 pages

We give complete instructions and sketches for an audio circuit upgrade to your Super-Pas (for the Super-Pas instructions, see 12/83-01/84) that significantly improve the dynamics and resolution of the preamplifier.

1985/07 • Super-Pas Kit • .5 pages

Announcement of our Super-Pas kit, instruction set and available options.

1985/05 • Super-Pas Power Supply • 2 pages

A do-it-yourself project to improve the power supply of the Super-Pas project (12/83-01/84). Creates noticeable sonic improvements with a simple upgrade.

1983/12 • Super-Pas Preamplifier Project • 8 pages

This is the first half of a major do-it-yourself project complete with instructions and plan set to entirely rebuild your Dyna Pas into a whole new preamplifier. Schematics and parts lists are included in this very worthwhile project.

1984/01 • Super-Pas Preamplifier Project • 8 pages

The major do-it-yourself Super-Pas rebuild started in 1983/12 is completed. This instruction set allows you to entirely rebuild your old Dyna Pas into a very smooth and musical modern piece.

1984/05 • Super-Pas Project Update • .25 pages

Update to the parts list of the Super-Pas project.

1985/09 • Super-Pas Two • 1.5 pages

Announcement of our Super-Pas Two preamplifier using all new PC boards in the Dyna chassis. It changed our mind about the musicality of digital. Obsolete

1986/12 • Superphono Amplifier • 1 page

Review and bench reports on the bi-polar Superphono amplifier.

1988/06 • Surge Protection • 4 pages

Another audio basic, in which we discuss AC line, surge protection, low line voltage problems, high line voltage problems, voltage spikes and more. This information will help you better protect your home equipment from damage arising from power line abnormalities.

1989/03 • Sutherland Hybrid Board didn't work for us • .3 page

Although built very well, the Sutherland ST-70 replacement driver board gave us stability problems and sounded too "solid state."

1988/05 • Tandy Corporation "Thor" CD Player • .5 pages

In this news brief we examine the claims for the proposed "Thor" CD playback and recording system from Tandy Corporation.

1987/05 • Tape Monitor Switches • 1.5 pages

Another audio basic: once and for all we explain the operation of the tape monitor switch, that seemingly innocuous control that causes more trips to the service shop than you could imagine.

1982/12 • Telarc 1812 Cannons • 2 pages

The Telarc 1812 Cannons and difficulty of tracking them leads into a discussion of rational constraints on the performance of audio components.

1983/11 • Telarc Records • 2 pages

Synopsis of our favorite Telarc records. Note: these comments apply to the Telarc compact discs also, as they use the same digital masters for both formats.

1989/09 • The Body Language of Bad Service. • 4 pages

Are you fed up with additional dealer mark-up at car dealers, inept counter workers who can not make change, and service workers who ignore your requests when you piece is repaired? We explore some ideas and reasons as to why the customer-service agency relationship is now at an all-time low. We offer four basic rules to help avoid unnecessary troubles.

1990/01 • The Magic Cable Challenge. • 3 pages

We send out letters to many "magic cable" manufacturers to send us samples of their products to see if magic wire really does improve the sound of our system. We explain the conditions of the tests we will do to any samples received.

1987/07 • Thorens TD 280 Turntable • .5 pages

We pass our findings on the nifty new Thorens turntable along to you.

1991/09 • Tonearm Giveaway • 0.5 page

Announcement of the contest for the SAEC tonearm.

1984/11 • Toroid Transformers • 2 pages

Explanation of the properties and characteristics of toroid transformers and their applications in audio.

1987/07 • Toshiba • .5 pages

In light of the fact that Toshiba is selling U.S. defense secrets to the Soviets, we suggest you BOYCOTT Toshiba products.

1986/03 • Transcendence 150 Amplifier • .7 pages

Introduction of our Transcendence Series Two circuits in the Hafler DH-120 amp.

1986/07 • Transcendence CD Player • .5 pages

Introduction of the high-definition and very smooth Transcendence CD Player in selected Philips chassis.

1988/08 • Transcendence Three Fet-Valve Introduction • 2 pages

Introduces the new AVA Fet-Valve preamp and power amp to the world and briefly describes the circuits and their sound (the sound of live).

1986/02 • Transcendence Tuner • 1.5 pages

Introduction of the stunning Transcendence Tuner built in the Hafler DH-330 chassis. In addition to our state of the art circuits, the tuner has all the modern digital creature comforts.

1986/01 • Transcendence Two Amplifiers • 1 page

Mention and notice of our new high-powered, state of the art Transcendence Two amplifiers.

1983/10 • Transient Distortion • 6 pages

All about transient distortion - it's causes, effects, manifestations.

1982/09 • Troubleshooting • 4 pages

This general and informative treatise on troubleshooting

begins this month and continues through 1982/11. Beginning with connections and switch positions, various "strange noises" are examined.

1982/10 • Troubleshooting • 7.5 pages

The study of troubleshooting continues with a discussion of distortion and includes several problems to work through as exercises in identifying system problems.

1982/11 • Troubleshooting • 7.5 pages

Continuation of troubleshooting including answers to the troubleshooting problem posed in 1982/10 and a flowchart for isolating problems in systems.

1983/01 • Troubleshooting • 1 page

Troubleshooting is completed with a final, alternate solution to the troubleshooting problem.

1987/08 • Troubleshooting • 5 pages

Some advice on maintaining and troubleshooting your audio system, including problems unique to CD players, CD cleaning techniques, pilot light types and failure modes, and fuse types and failure modes.

1987/12 • Troubleshooting - Flow Chart • 4 pages

Block diagrams of the typical system and a flowchart for isolating problems are sure to be a handy reference for any troubleshooting you need to do.

1987/10 • Troubleshooting - Fuses • 2 pages

Continuing the look at fuses begun in the Troubleshooting article of 08/87, we compare fast and slow blowing fuses, explore how fuses protect your system, and causes for fuse failure.

1987/11 • Troubleshooting - Power Amplifiers • 1 page

Know your audio cable. If the ground and hot on the standard RCA phono plug are not properly connected, your amplifier will hum. Thus, beware the open ground connection.

1990/01 • Troubleshooting revisited • 1.5 pages

After receiving too many customer's units for repair that actually had nothing wrong with them, we include our Troubleshooting flow chart to help your solve minor troubles in your system to avoid sending us pieces that are not necessarily broken.

1984/10 • Turntable • 1 page

Troubleshooting and repair of a very poorly aligned turntable and some thoughts on the effect the "weak link" can have on the rest of your system.

1985/02 • Turntable Base • .25 pages

Short and simple instructions on building a very solid and effective turntable base out of chimney blocks.

1982/05 • Turntable Damping • 2 pages

Instructions on damping turntable bases and tonearms with plast-i-clay. This inexpensive and simple improvement kills many of the mechanical resonances of the system.

1984/12 • Turntable Set-Up • 6 pages

Complete instructions for properly setting up and aligning your turntable, including explanations of the controls and adjustments necessary.

1985/11 • Tweak • .5 pages

We receive a report from our clients on Tweak contact cleaner.

1987/05 • Tweeter Warning • 1.5 pages

Beware of the frequency sweep tracks on test CDs. They can blow your tweeters if improperly used.

1989/01 • Underground Magazine Editor Upset with Us. • half page

An "Underground" magazine editor claims that we get ahead because we only blast apart other people's products. An AB reader survey reassures us that we only "call them as we see them and as they really are."

1982/02 • Underground Magazines • 6 pages

This guide on "How to Read" underground magazines clarifies several of the current audio myths and serves as a guide to clear thinking.

1984/07 • Underground Magazines • 1 page

Just a glimpse of the fun of trying to get equipment noticed and reviewed by the underground press.

1985/01 • Underground Magazines • 1 page

Yet again we encounter the craziness and marketing strategies of the underground press.

1984/09 • Used Audio Equipment • 6 pages

This guide to used equipment will help you avoid expensive pitfalls. Learn careful techniques in evaluating equipment and know what questions you need to ask to not get had.

1982/07 • Vacuum Tube Amplifiers • 3 pages

An in-depth look at some of the limitations of vacuum tube amplifier design and ways to work around and within these limitations.

1985/03 • Vacuum Tube Amplifiers • .7 pages

Power vacuum tubes are getting scarce and expensive, so buyer beware. But if you already have a ST-70, we can help you make it sound nice for only \$5.

1987/08 • VCR Hook-Up Problems • .5 pages

Warning: your Cable TV signal can inject hum into your audio system if you aren't careful. We tell why and how to solve it.

1987/04 • VHS Video Options • .5 pages

Dolby doesn't necessarily mean "hi-fi", and "hi-fi" doesn't necessarily mean stereo. It's a jungle out there - we've been through it.

1985/03 • Warehouse Shopping • .5 pages

A few simple guidelines about surviving the warehouse electronics stores and finding values on the equipment you want.

1990/05 • Wire Challenge Concluded • 3 pages

After waiting several months, we received only one brand on speaker wire to test. The various tests and trials show that Kimber Kables do make that slight bit of difference to make our system sound a little bit better and clearer.

1990/04 • Wire Challenge Continued • one page

We have received one brand of wire from one manufacturer, and that is all. We continue to wait to see what will be the outcome of the Great Wire Challenge.

1990/02 • Wire Challenge Update • 1.5 pages

The wire challenge has gone mostly unnoticed by many wire manufacturers, but we hope to get a few brands to test.

1982/09 • Wonder Caps • 2 pages

A look at fraudulent modifications to Hafler DH-200 amplifiers involving "Wonder Caps."

1982/10 • Wonder Caps • .5 pages

A comment on the difficulties of getting engineering data on "magic" parts.

1982/11 • Wonder Caps • .5 pages

A continuation of the investigation of Wonder Caps, specifically the PPMF devices produced by Reliable Capacitor.

1983/01 • Wonder Caps • .25 pages

At long last, we finally encounter Wonder Caps ourselves and learn that they are terribly microphonic.

1984/02 • Wonder Caps and Magic • 1 page

We examine the claims of the all-new, improved Wonder Caps and recommend you consider just what advances in the standard of living magic has ever made. Van Alstine's Law 1-3 are provided for your contemplation.

1986/06 • Yamaha CD Player • 1 page

We learn that all CD players do not sound alike. Experience with a Yamaha leads to warnings and suggestions for our readers.

1989/08 • Yellowstone fires. • half page

After visiting what remains of Yellowstone National Park, we can tell you that the fires have destroyed a good part of the beauty it once was. The government let the fire burn way too long, and sent in too little help too late.

## Used Equipment

**Omega 500 Power Amplifier.** This is a very special value, brand new Omega 500 circuits in a like new Hafler DH-500 chassis with a new custom refinished black faceplate, grab handles and cover. This beauty makes 300 watts per channel and will safely drive 2 ohm loads. It is our best solid state amplifier and carries a new two year parts and labor warranty. It is yours for the price of an Omega 400 - \$1295 plus \$25 shipping in the USA. It is THE choice for difficult to drive loads, professional use, or simply for pure listening pleasure with unrestrained reserve power. It is quiet, cool, and rugged as an anvil with a dozen big die mos-fets and our all new active feedback circuits. Call NOW!

**Fet Three Plus CD Player in a very clean CDB582 chassis.** This is a very nice machine, complete with remote control, and its transport passes all our most difficult tracking tests with flying colors. Just \$195.00 (+ \$10 shipping in the continental USA) with a 90 day parts and labor warranty.

**Delta 330 FM Tuner.** This is another outstanding value, a very clean late model Hafler DH-330 tuner with our current Delta circuits installed, complete with the original box and manual, antenna, and connection cables. It is ready to go for just \$295 + \$10.00 shipping in the continental USA and a 90 day warranty.

**There is more equipment coming** for brokerage resale. Call us occasionally to find out about the best values and how to upgrade your AVA system.

*Frank and Darlene Van Alstine*