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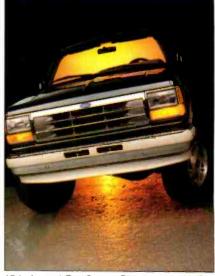
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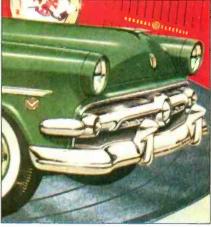
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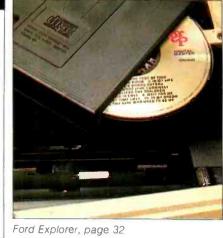
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Nº 30

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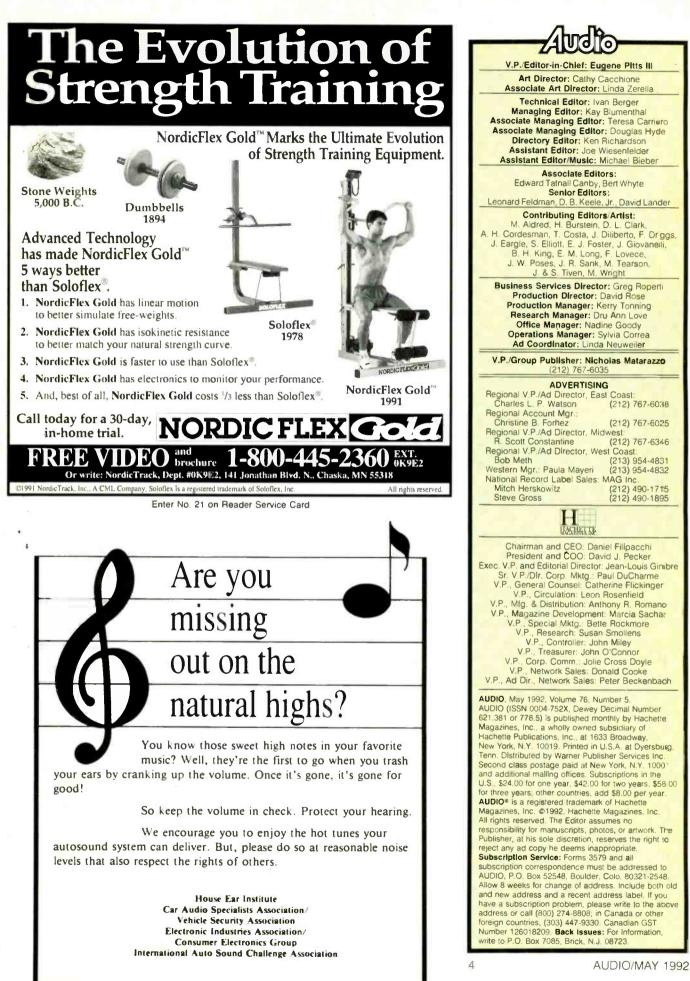
The N^{Q} 30 is a true reference: it neither adds to nor subtracts from the music. It brings to your home the accuracy as well as the essence of the performance. Finally, the promise of digital audio is fulfilled.

The N^o 30 is proof that state-of-the-art digital *and* analog technology can coexist with craftsmanship. The subject here, however, ultimately is music, and the heart of music is in the listening. To fully appreciate the quality of the N^o 30, we recommend that you visit your Mark Levinson dealer for a full audition.





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WHAT'S NEW



Sherwood Cassette/ Receiver

Four amplified outputs (at 25 watts per channel) and four preamp-level outputs allow Sherwood's XR-4814 to be used as a self-contained system or with external amps. It can also control a CD changer. The tuner section has five AM

and 15 FM presets and can automatically store the five strongest local stations. The cassette section has Dolby B NR, a dual-azimuth tape head, music search, and auto-reverse. For security, a small section of the control panel can be removed. Price: \$300. For literature, circle No. 100



Kenwood Cassette/ Receiver

The KRC-640's tuner section has 24 FM/AM presets with six-station automatic entry and a Priority Radio Preset (PRP) button that recalls a preselected station instantly, even during CD or cassette play. The amplifier section delivers 15 watts per channel into each of four 4-ohm speakers, or 25 watts per channel into a single pair of speakers, all at 1% THD over a bandwidth of 30 Hz to 20 kHz. It can also be used to control a Kenwood CD changer. Price: \$349. For literature, circle No. 101



Clarion In-Dash CD/Receiver

The CD section of Clarion's 5770CD features dual one-bit, bitstreamtype, D/A converters plus such conveniences as intro scan and memory features which can resume play at the exact spot where play left off or at the beginning of the last track played. The amplifier section delivers 27 watts into each of its four channels. The most frequently used control buttons are raised and located along the outside edge. An audio mute is triggered when a cellular telephone is in use. The unit is removable. Price: \$499.95. For literature, circle No. 102



Gold Line Third-Octave Analyzer

The DSP-30 portable real-time analyzer from Gold Line offers display scales of V₄, V₂, 1, 2, 3, 4, or 5 dB per step, plus the ability to scroll the display up or down through an 85-dB window. It can

also display reference and current SPL levels digitally. Signals can be displayed in average, peak, or peakhold mode, and curves in For literature, circle No. 103

the six memories (expandable to 30) can be summed or subtracted. Filter sharpness is selectable from the built-in keypad. Both line and microphone inputs are built in, and an electret microphone is supplied. The unit is powered by 8 AA batteries. Options include ports for a computer printer, RS-232 serial data link. oscilloscope, or CRT monitor, as well as extra nonvolatile memories. Price: \$1,500; RS-232 port, \$315; printer port, \$250; additional memories, \$125.

Sennet Powered Subwoofer

Rated at 20 to 250 Hz, Sennet's SC-80 "Sonic Boom" powered subwoofer

has a compact tube enclosure designed for trunk or hatchback mounting in cars, or in vans. pickups, or boats. The woofer driver is an 8-inch, long-throw design, with crossover frequency selectable at 120 or 250 Hz. The amplifier section delivers 45 watts. Price: \$120. For literature, circle No. 104



Celestion Subwoofer

Among Celestion's first entries in the car stereo market is the AD 12 subwoofer. The speaker is designed for use in infinitebaffle and compact vented enclosures and has a professional-grade cast alloy basket frame and a 3-inch, high-temperature voice-coil. The 12-inch speaker will handle 600 watts with a sensitivity of 94 dB for 1 watt at 1 meter. Price: \$279. For literature, circle No. 105

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AUDIO/MAY 1992

7

BEHIND THE SCENES

BERT WHYTE

NOW, THEN

ost people are aware that a Silver Anniversary marks a span of 25 years, a Golden Anniversary is 50 years, and a Diamond Anniversary (sometimes called a "Diamond Jubilee") is 75 years. But how many know that the social arbiters of etiquette have decreed sapphire as the celebratory gem for a 45th anniver-

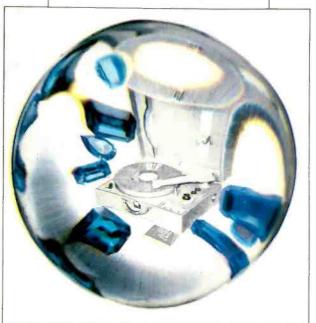
sary? Since this May issue of *Audio* marks our 45th anniversary, perhaps we should have emblazoned the front cover with a giant "blow-up" of a sapphire stylus! However, since a phono stylus is an artifact of what is now regarded by many as an archaic technology, perhaps it would be inappropriate for a publication that has chronicled the cutting edge of audio technology for 45 years.

As has been noted many times, 1947 can roughly be reckoned as the beginning of the hi-fi era and what has evolved into our present audio component industry. In that May 1947 first issue of *Audio Engineering* (which was our title then), there were articles on square-wave analysis and IM testing and com-

ments on the Altec 603 loudspeaker (raw driver of course). There was a new Fairchild cutter-head, with response from 30 to 8,000 Hz and two new wire recorders! One Edward Tatnall Canby was reviewing monophonic 78-rpm records. Primitive stuff by today's standards, but of keen interest to the basically engineering-oriented readers of our first issue. It was several years before the engineering types who read Audio were joined by everincreasing numbers of what became known as "hi-fi nuts." In retrospect, it was those often-maligned nuts or "bugs," whose zealous pursuit of higher fidelity in the reproduction of music established the foundations of the audio component industry.

The advent of the LP vinyl disc in 1949 really spurred the growth of the hi-fi business, and the ongoing advances in audio technology brought ever-higher quality of sound reproduction. By 1960, the hi-fi business was no longer the sole province of the hi-fi hobbyists, but had become "entertainment electronics." The market had become segmented into "low-fi" massmarket products, "mid-fi," and "highend audio." The latter category was, and is, a sort of proving ground for the most advanced and innovative new audio technology.

By 1972, the audio components in-



dustry was firmly in place and flourishing mightily. Audio magazine had grown along with the industry, and quite understandably, made much of its 25th Silver Anniversary. I wrote a retrospective view of the hi-fi phenomenon in that May 1972 issue, and in another feature, a group of prominent executives in the audio industry were asked to make some prognostications on what the audio scene would be like 10 years in the future, in 1982.

Well friends, this 45th anniversary issue makes it 20 years since those forecasts, but much of what those industry leaders had to say has surprising relevance in today's audio component market. I've culled a number of those predictions that I think are the most interesting and perceptive.

A. J. Hofmann, the president of loudspeaker manufacturer Acoustic Research Inc., observed: "The re-cre-

ation of the ambience of the concert hall through four channels will make slow but steady headway. Once the system and hardware have been settled, there will still be the resistance of the mistress of the house to having four speaker systems in the living room. In my opinion this is the greatest long-range hindrance to universal multichannel reproduction in the home.

"There is room for drastic improvement in TV sound systems, and it is logical that this would be a fertile ground for hi-fi expansion. There ought to be multi-channel high-fidelity TV sound to complement the flat TV screens that will be here."

Hofmann was talking about quadraphonic sound, which

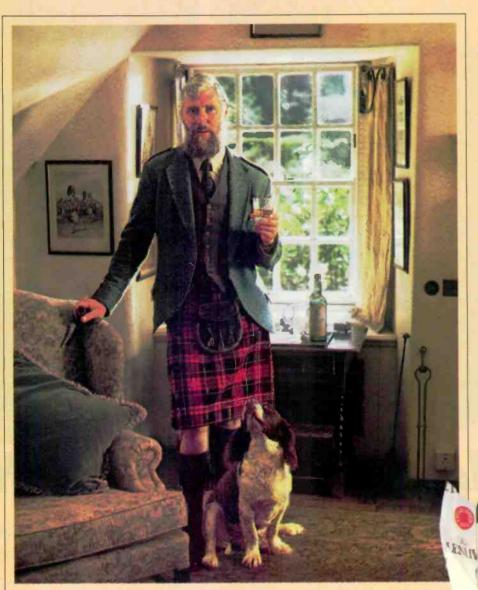
was in vogue then, but obviously, the Dolby Surround home theater of today often encounters the same kind of resistance from the "lady of the house." There are major differences, however, between the quadraphonic layout of 1972, which was pretty much the domain of the audiophile hobbyist, and the Dolby Surround home theater, which, with the visual elements of the TV, is something that can be shared and enjoyed by the entire family.

Joseph N. Benjamin, president of Benjamin Electronic Sound Corp., predicted that "tomorrow's juvenile will be surrounded by sound in his own cocoon (just as the narrator in Anthony Burgess' A Clockwork Orange), and this may demand as much as 12-channel reproduction. This will certainly be available from tape, but possibly from other program sources as well in the future."

Benjamin also anticipated multichannel audio reproduction, although I doubt his 12 channels are practical, or



"If you cannot drink The Glenlivet" the correct way, I beg you to drink some other Scotch."



 Sandy Milne, our Resident Sage.

At the pinnacle of Scotches sit the sing e malt whiskies. Slightly above them sits The Glenlivet, the father of them all.

At this top: ost level of Scotch, there is a ritual to the drinking of it.

"Ice massacres the smooth, mellow taste" says our Sandy Milne somewhat testily. "So, no ice. All you want is a drop or two of water to bring out the 'nose,' or aroma. Spring water, if you've got it. Cool, not cold. And use a fine crystal glass, gently warmed in a cupped hand to release the full bouquet

"Save the ice cubes and big splashes of water for other Scotch," advises Sandy, "where it hardly matters a hoot."

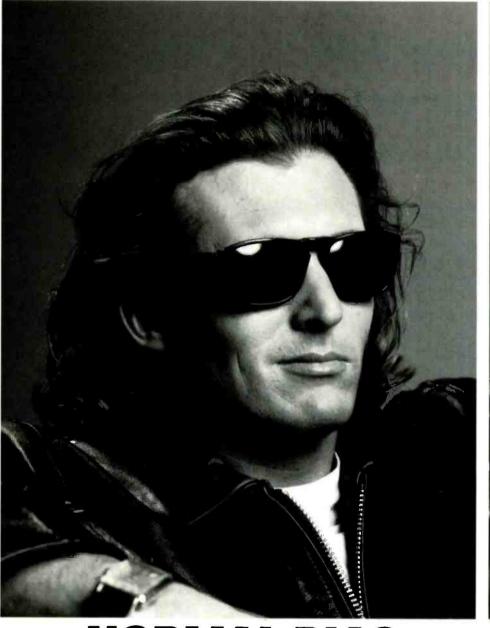
ENLIVET

Sandy Milne sampling the goods

- What is a single malt Scotch? -

A single malt is Scotch the way it was originally: one single whisky, from one single distillery. Not, like most Scotch today, a blend of many whiskies. The Glenlivet single malt Scotch whisky should therefore be compared to a château-bottled wine. Blended Scotch is more like a mixture of wines from different vineyards. The Glenlivet. The Father of All Scotch.

CLENLIVE



NORMAL BIAS

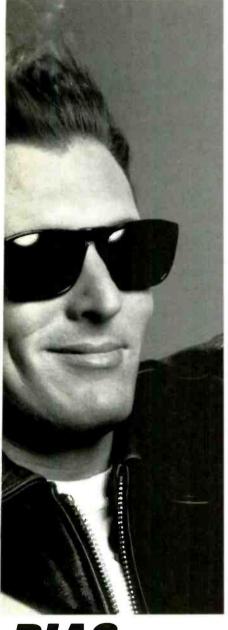


HIGH

Maxell has a tape for those whose passion for music isn't normal or high, but intense.

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the magnetic coating on any normal or high bias tape, Black Magnetite helps XLII-S deliver higher maximum output levels and a wider dynamic range.

This might explain why CD Review magazine called XLII-S "head, shoulders and torso above the rest"



BLACK MAGNETITE

in their analysis of high bias cassettes.

"You'll know you're hearing something good," said their reviewer, "when your heart leaps into your throat."

That's not normal. That's not high. That's Maxell XLII-S with Black Magnetite.



TAKE YOUR MUSIC TO THE MAX. Our first issue covered primitive stuff by today's standards, but it was of keen interest to the engineering-oriented reader.

even necessary given some of the wizardry possible with digital signal processing.

Simon Sheib, president, Avnet, Inc. commented that "the ability to produce fine equipment, at prices which more and more people can afford, will be the thrust of the next 10 years. A decade ago the general public was just becoming interested in high fidelity. A much larger segment of this public is now interested. Within 10 years, a geometrically larger proportion of the population will discover the pleasures of good sound, as well as the fact that they can afford it."

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Good understanding of Boroque... sensitive handling of ornamentation" -High Performance Review



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P.O. Box 3060 Sar Clemente, CA 92674 USA (714) 498-2770 Avnet owned British Industries, well known for Garrard changers and Wharfedale speakers. Sheib's prediction was right on the mark—audio equipment did indeed become available to a much larger segment of the public, at lower prices. Further, even today's \$399 rack system can reproduce sound with remarkably good quality.

Herb Horowitz, president of Empire Scientific Corp., got right to the point: "There will be four channel and even more channels as high fidelity heads towards the 1980s. Sound will come from all corners of the room, from the ceiling and from the floor. The listener will feel as though he is in a womb of high fidelity.... Video tape is here; video records are just around the corner. Then, we'll blend audio and video; audio-visual effects will be a part of the sound."

Horowitz was also on the multi-channel surround sound bandwagon, but he went so far as to include sounds from ceiling and floor. This, of course, describes the ideal "periphonic" sound of the Ambisonic process I reported on in the March 1992 issue of *Audio*.

Hi-fi pioneer Avery Fisher, president of Fisher Radio, could foresee the "integration of the complete stereo receiver unit in a home electronic control center serving also for paging, security, and TV video recording and playback; the use of Class-D amplifiers in which the operating frequency is between 400 kHz to 1 MHz, allowing a great reduction in power dissipation, the size of heat sinks, and the unit."

Fisher clearly anticipated today's audio-video control centers, but his prediction on Class-D amplifiers has yet to be realized, after abortive attempts by several manufacturers.

RCA Laboratories' Dr. Harry F. Olson, who contributed so much to our understanding of microphones, loudspeakers, and acoustics, sagely observed that "auditory perspective and acoustic ambience are areas in which tremendous improvements in performance will be made."

Olson would be pleased with our current DSP units for concert hall acoustic synthesis.

S. Mabuchi, vice president/engineering for Sony Corp. of America,

By our 60th anniversary, we may have playback of music via "Mega Memory" chips with no moving parts whatsoever!

very perceptively stated that "theater type entertainment in the home is very close to us now, and therefore we cannot neglect the video art when we discuss the future of the audio art. These two arts will go along hand in hand from now on.... I feel very strongly that the ultimate status of the audio art in home entertainment and educational applications relies on a good combination with the visual art. The video equipment should have the best available audio capability. Four-channel audio can create realism of the concert hall. However, if it is accompanied with the visual image of the player of the music or the concert hall, it will add more realism. The reverse is also true; a good visual image with good audio will create more realism than the visual image alone.

Mabuchi's prediction was probably the most accurate, as witnessed by the now well-established concept of Dolby Surround Sound.

I feel it is worth commenting that many of the prognosticators in Audio's 25th anniversary issue anticipated the integration of audio and video. Now in our 45th year, Audio's mission remains the same—the accurate, timely, and we hope, entertaining reporting on all aspects of the art and science of audio engineering and the reproduction of sound. Nonetheless, we recognize the ongoing and increasing interaction of audio with video, and thus we acknowledge an obligation to keep our readers informed on pertinent developments in both fields.

Our 50th anniversary is just five years hence in 1997. I offer my own prognostications on what we might expect: Digital-based HDTV will be in place. LCD projectors will be highly refined and offer high brightness and contrast ratios along with 1,125-line resolution-and all this without visible pixels and with no need for convergence adjustments. Digital signal processing will enable automatic equalization of loudspeakers in any acoustic environment. There will be full, discrete, SMPTE six-channel surround sound available from LaserDiscs on some updated optical/digital format.

By our 60th anniversary, we may even have music playback from "Mega Memory" chips with no moving parts whatsoever! If this is not yet a reality, we may at least be all linked together by fiber-optic interactive networks, with access to central audio-video "entertainment" libraries at the touch of a button.

In these depressing, recessionary times, audio and video equipment might not carry much weight in respect to economic priorities, but there is no denying the solace and therapeutic value of great music and pleasing video vistas!

Just to show you what kind of an optimist I am, it occurs to me that on *Audio*'s 75th Diamond Jubilee, I'll only be 102!

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AUDIO/MAY 1992

13

Vandersteen loudspeakers are priced from under \$700 per pair.

CAN TUBES WARM UP CD SOUND?

How a very old technology can make a brand new compact disc player sound extraordinarily good.

Our new SD/A-490t has a clock that "ticks" 33 million times a second, multi-stage noise

shaping, pulse width modulators and enough other edge-of-the-art circuitry to finally qualify us for entry into the hallowed Compact Disc Techno-Jargon Hall of Fame. But it also includes two vacuum tubes whose classic

design has remained unchanged for over 35 years. Tubes? Those warm glass things that used to glow cheerily through the grilles of old radios and black & white TVs? Yes. In an important circuit

stage that comes after all the digital wizardy. We and many other critical listeners believe that this anacronistic addition to an already excellent CD player design significantly enhances its sound. Read on and decide for yourself.

THE AMPLIFIER THAT DOESN'T AMPLIFY.

Between a CD player's D/A converter and external outputs is circuitry called a buffer amplifier stage. When you hear the word amplifier, you think of something which makes

a signal louder. But that's not a buffer amp's purpose. In fact, contrary to popular lore, a CD player's buffer amplifier doesn't boost the signal strength at all — the final output of a CD player's D/A converter already has sufficient voltage to directly drive a power amplifier!

Instead, the buffer amp is a *unity gain* device which *1) increases output current, and 2) in the process, acts as a sort of electronic shock absorber.

A signal emerging from a CD player's digitalto-analog conversion process has sufficient voltage but insufficient current for proper interaction with a preamplifier or power amp. By acting as a current amplifier, the buffer stage helps lower impedance to a level that's compatible with modern components — about 50 ohms in the case of the SD/A-490t.

At the same time, the buffer stage helps isolate the relatively fragile D/A chip set from the nasty outside world of demanding analog components.

TUBES VERSUS SOLID STATE.

All compact disc players have buffer amplifiers. But more than 98% of them use solid state devices for this stage: either integrated op-amp circuits or discrete transistors.

¹ A handful of hard-to-find, esoteric designs in the \$1200 to \$2500 range employ one or more tubes instead. As does our readily-available \$699 SD/A-490t. For fundamental physical reasons, tubes have different transfer function characteristics than transistors. When used in ultra-expensive, audiophile preamplifiers and power amplifiers, their sound is variously described as "mellower", "warmer", "more open and natural" or simply "less harsh than solid state".

At the heart of these perceived differences are three basic facts:

1. Tubes produce *even*-order distortion (i.e. 2nd, 4th, 6th harmonics, etc.) while transistors create *odd*-order distortion, particularly 3rd harmonics which are less psychoacoustically pleasant.

2. In a buffer stage, a tube acts as a pure Class A device, which is considered the optimal amplifier configuration. Op-amps function as Class A in and Class B out, with potential crossover distortion as voltage swings from positive to negative.

3. Tubes "round off" the waveform when they clip. When over-driven, solid state devices cut off sharply, causing audible distortion.

THE SD/A-4901'S OUTPUT SECTION

Our new CD player uses two 6DJ8 dual

triodes (each literally two separate tubes in a single glass envelope) placed between the digital-to-analog converter and a motorized volume control.**

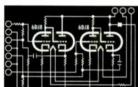
Operated at less than 30% of their maximum capacity, these tubes achieve a highly linear out-

put voltage with very low static and transient distortion while providing very high dynamic headroom.

And because they're "loafing" at 1/3 their rated current capability, the SD/A-490t's tubes are designed to last the life of the CD player without replacement or need for adjustment.

A "LESS IS MORE" DIGITAL APPROACH FOR CLEANER ANALOG SOUND.

It would be pointlesss to have a tube output stage if the digital circuitry which precedes it





first rate. The SD/A-490t uses

Single-Bit D/A circuitry to eliminate a form of exceedingly audible distortion inherent in most current CD player designs, and to provide better signal linearity than ever before.

If you've read current CD player brochures, you've probably stumbled across descriptions of de-glitcher circuits, laser trimming and even 22-bit converters. All these are merely fixes, applied to the same basic kind of D/A converter in an attempt to overcome built-in shortcomings.

In contrast, the SD/A-490t uses a completely new technology which avoids many of the problems that older approaches have struggled to surmount. We'd have to buy a whole section in this magazine to fully explain the differences (if you're interested, call 1-800-443-CAVR for an appropriately long and detailed

brochure), but here's a short synopsis.

Traditional converters require 16 separate reference circuits, each of which must be accurate to one part in 65,536 - but, due to the realities of mass production, rarely are. If they're not "dead-on", an unpleasant form of noise called zero-cross distortion is produced. Because Carver's Single Bit D/A Converter transforms a 16-bit signal into a 1-bit pulse signal array, the "ladder" of 16 ultra-high-precision reference devices is not required: In effect, the SD/A-490t need only manipulate a stream of varying-width on/off pulses instead of having to accurately create 65,536 different amplitude levels at all times.

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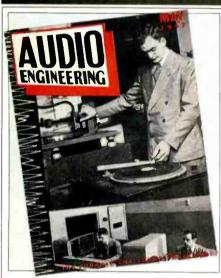
A device which related applies for alternates a signal so have unity gain. In other words, what goes in concerce out anothinger. Or **Remote control variable output is a wonderfully convenient feature, but it would be pointless to eliminate solid state circuitry in the buffer amp stage and then use a solid state circuit for the final gain attenuator. So the SD/A-490t changes volume the old fashioned, physical way: a nice, clean carbon pointiometer, in this case, physically rotated by a small motor. **Source: 1990 <u>Audio</u> Magazine Annual Equipment Diractory.

JOHN EARGLE

IRRF



AN APPETITE FOR AUDIO



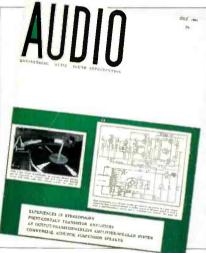
he first issue of *Audio* was published in May of 1947 under the name *Audio Engineering* and it was known by this name until 1954. As a past president of the Audio Engineering Society (AES), I am keenly aware of the fact that C. G. McProud, editor and publisher of the original *Audio Engineering*, offered the magazine as a platform for some of the papers generated for early Society meetings. When the AES initiated its own *Journal* in 1953, *Audio* began a life of its own.

When I went to work for Paul Klipsch in 1956, I became fascinated with his collection of *Audio* issues. With my limited knowledge of engineering at that time, *Audio* proved to be just about the only portion of Paul's vast library I could begin to understand. I stayed many evenings after work just to thumb through them, learning as I went.

In 1958, I enrolled in electrical engineering at the University of Texas and supplemented my GI Bill of Rights by working as an organist/choirmaster. A member of the choir who was also an audio buff had a complete collection of *Audio*. My fascination continued and no doubt contributed to my own career commitment to the field.

In those early days, high fidelity in the home was an esoteric thing. Most people had "console phonographs" made by Magnavox, Philco, General Electric, or RCA, and only true audio buffs had what were called "separates," most of them designed and built by American entrepreneurs. Such brands as Klipsch, Bozak, Acoustic Research, and James B. Lansing dominated the loudspeaker field, while H. H. Scott, McIntosh, and Marantz dominated electronics. And who over 50 can forget Rek-O-Kut turntables and Pickering cartridges? And certainly let's not ignore the gigantic strides made by Emory Cook and Ewing Nunn as they generated new software for the fledgling industry.

Audio was the ultimate buff book (the only buff book for many of those early years), and in it you found articles on construction of home systems, amplifiers, and the like. With the advent of stereo there were detailed articles on cutting heads and the new discs. In fact, when I edited the Stereophonic Techniques anthology in 1986 for AES, I requested that the AES editorial office contact Audio for permission to include five papers from Audio from the '50s.



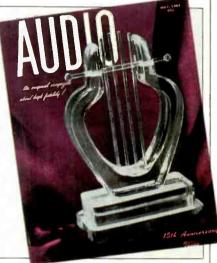
For several years during the '50s and '60s Audio's covers featured a unique installation each month, with copious details in the text. Many of these whetted my appetite, and it wasn't til' many years later that I finally entered that league myself. Imagine reading an article on Sherman Fairchild's home studio in his Fifth Avenue duplex, and ever dreaming that you would own its equivalent in the 1980s!

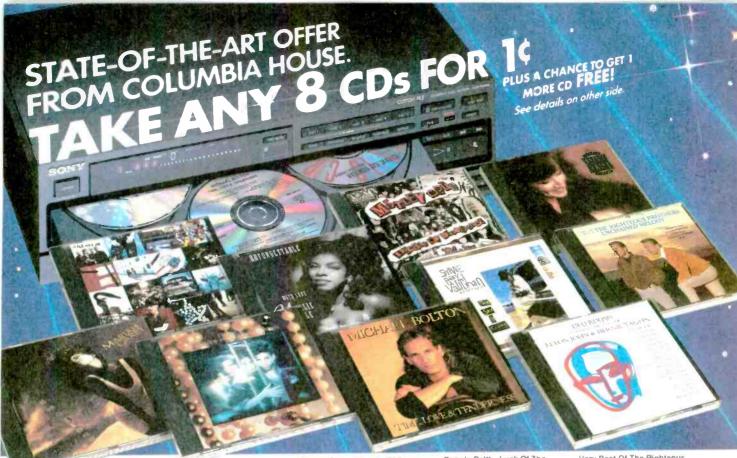
As time passed, the emphasis of the book changed. Stereo had become something for the masses, and high quality sound was within the reach of most people. Product reviews became an important part of the overall picture, and Audio virtually pioneered what we might call the *technical review* for which detailed measurements provided the basis. A major step forward for the magazine in the early '70s was getting Richard Heyser to do the first in-depth loudspeaker reviews the industry had ever known, either in the United States or elsewhere. That tradition continues with Don Keele.

I believe that Audio introduced the first industry-wide equipment directory back in the '50s and it has since become the bible of the industry. The 1991 directory weighed in at 376 pages.

With its predominantly technical background, one might think that *Audio* would favor objective evaluations to subjective ones. Traditionally this was the case, but in recent years the magazine has given both a more equal balance, realizing that there is much that cannot easily be measured. The "Auricle" section has become the vehicle for reviews that go well beyond the technical domain, and the writings of Anthony Cordesman and Bascom King in this important area have been illuminating.

On the subject of writers, no magazine in the field has had so many "long timers" as *Audio*. I was recently thumbing through some issues from the early '70s and found it notable that Bert Whyte has been writing "Behind the Scenes" for more than two decades. Ed Canby's "Audio ETC" goes back perhaps 15 or 20 years earlier, and his reviews began with the first issue. I hope I can stick around as long—and be as relevant as these men.





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THE WAY WE WERE

947-195

t's been 45 years! I regret that early in 1947 I missed a sort of Olympic gold-I was not in our very first issue. (You're always a gold medalist to us Ed, and you were in the first issue, yes, right from the beginning. -E.P.) This month is our 45th anniversary. We appeared in May 1947 under our original name, Audio Engineering. It was the same mag as today and, to my knowledge, never an issue missed since. The "Engineering," clumsy on a cover, was gracefully retired, but not the engineering inside. So we became Audio, surely the first of our sort to extend coverage all the way from the professional out to the consumers of the products and processes we discussed. And towards the music lovers who wanted better sound for their musical ears. That's where I came in.

Let me give you a first-hand memory/feeling for those days, almost two years after the war that left the U.S. unharmed at home but stopped cold. as we had not been stopped since 1865. Reconstruction it was then called. Postwar frustration would be a better word for 1945, and on and on. Continued deep unrest, after the peace. First it had been fear we would be involved, then war itself, the anxious waiting for dismal news-by 1945 we really festered in a way I remember all too well. Too long! We could not remember anything else, and now we wanted the big change, and guick. Anxiety! It had been with us for years and years, going back long before that early crisis in 1938 called Munich. After that, we knew the inevitable in our hearts, and it came.

We have similar feelings of dread today, but we can more easily feel we are exempt. Oh, it could happen here but it's been a very long time. Maybe it won't. No such mild hopes in those years! Things moved much too fast. We still could *wish* that if we just stayed away, even after war began, we might be left alone. But let me tell you, the tension of doubt was reinforced every day, though we denied it. And so life went on as usual. Far into actual war.

In early 1941, I guess, my father got a bright, new, green 1941 Dodge sedan. It really wowed us, so modern and, somehow, so cheery. *Maybe everything will be OK*, it said. It even had the beginnings of an automatic



transmission, a fluid clutch. If you got to a hill, you had to shift manually into second. If you didn't, the car would come to a stop and then gently roll backwards while the engine plugged away forward.

Our next car came along 11 years later. Another Dodge, in 1952. It had half-automatic transmission but otherwise was virtually unchanged. Progress? Hardly. That's what was coming up for us. Peace-and no change. Frustration. Deep and maybe selfish. After all, we lived okay, the fighters were back home, the carnage over. But we wanted, selfishly, a lot more from peace! We wanted RELEASE from anxiety, and we wanted it in worldly goods. So we celebrated V-E Day and V-J Day, almost hysterically, and then slumped right back. No change, nothing new. Not for us at home. Not for those who returned expecting the best. Euphoria melted into despair, as we inched, millimetered, into the time of peace.

Unhappily, the delays hit the American public as just too much to bear. The tensions of waiting so long for the fruits of peace, tensions so long held tight, channelled into worthy causes during war itself, now had no reason. But they stayed on. The status quo was still quo. A dog's age! Why, WHY, couldn't we get going? Selfish of us and unthinking. But the longer the seeming stalemate lasted, the worse did we feel. In times like these, people don't think, they emote. Americans simply would not understand, as consumers, why there weren't instant floods of consumer goods, top to bottom, after such an endless dearth of anything really new and interesting.

Yes, in the long, early postwar years there were itty-bitty bits of progress. Even new cars. But these were 1941 models with new radiator grilles. Such a gut disappointment. I remember the return of metal file cases, instead of wartime wood. *That* was, progress? Big-city trolley cars, brought back during the war, were again retired. Big deal. You could buy toothbrushes. There was unrationed gas—if you still had a prewar car. But who did?

I remind you that during the war the entire broadcast and record industry, base for our audio, was on hold, though operating. That included the just-established FM system, where I found myself working as previously described. The Major, Edwin Armstrong, was on the way to a huge new FM

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In 1947, the audio field was suddenly flooded with new records, turntables, new phono cartridges—we were propelled with excitement.

network, to rival the AM powers. He had twisted arms at big electrical outfits to build high-quality FM sets under his direct supervision. There were FM stations blossoming everywhere, right up to the war. He even had two huge super-power FM transmitters built, near New York and Boston, and microwave connections set up. But on December 7, 1941, all this was stopped on a dime. The same for the record industry when the shellac supply for 78-rpm records was cut off. Turn in an old disc for every new one you bought.

When peace came at last, more frustration. Nothing seemed to happen. I was well established in FM, but our hopes went right on being future. Wait, wait, WAIT. Four years of war; then right on, the same. When would we expand? Tension, anxiety, just as it had been in one way or another since the middle '30s. It was a deadly time, coming so agonizingly on top of the years before peace.

As told here already, in June of that sad year, 1946, our FM station expired on practically no notice. I was left minus a career, completely at sea. So were plenty of other 1946 hopefuls. Yes, momentous things were going on behind the scenes, but few of us knew of them. Life just went on and on, downhill with peace. It really was awful, and generally so for everybody. Would we ever get started again?

Then came one of the really extraordinary years in U.S. history-1947. You note the date-our own. It seemed, all of a sudden, that everything burst out-at last. Illusion? Progress is gradual, perforce. But nevertheless, the mood suddenly reversed. Maybe it was just a rising flood of lesser but really NEW items. We looked at them, we began to buy, and we said to ourselves "Maybe the log jam is busted!" As in politics, such feelings feed on themselves. The long, vicious decades of tension ended, it seemed, in minutes. It was incredible. (Though, of course, the planning and tooling up had been going on for a long time before.) Starting with the quickest designs, the fever spread rapidly into more and more complex new products, really postwar, truly innovative if not always successful. We didn't care. It was over. Maybe a dozen years! Children had grown up with it. Now at

last, release. We went overboard. This is from personal remembrance.

In the audio field there was suddenly our own flood. There were new records, of course, turntables, revolutionary new phono cartridges, 10-watt home amps, then quickly the new hiend amps, much superior. It was not yet "hi-fi," this movement, but it was the beginning and did it move from then on!

Right in the middle, our new magazine was born, riding the wave by no coincidence at al. Luckily for us, a mag can be set up faster than a new car model. Audio? It was still an unfamiliar term to most, including myseif, coined to clear the distinction between electrical engineering and electronics for sound. In no time there was an Audio Engineering Society (I am a charter member thanks to our first ecitor) and for a while we were its journal until the AES made its own.

So now you can understand the explosive time into which we projected

our magazine. And the excitement described by others as well as myself in the new world of hi-fi. We hit the nose on the head, as I like to say.

The climax and completion of all this was at last the *really new* cars. The top! The ultimate fulfillment. But we were there first. I was at the first show of the BRAND NEW Ford. Was it 1948¹/₂? 1949? It was stupendous!

By no coincidence, also, the new managing editor of *Audio*, C.G. McProud, listening one day in early 1947 to local radio, heard a program called "The New Recordings," with Edward Tatnall Canby. I had rescued this program from the FM debacle and moved it "live" to the city AM station, WNYC. A phone call from McProud to my new phone nearby, and I was reattached to life and a career. Casually. My memory of our first meeting is mainly the McProud Siamese cats.

One thing leads to another, right? Audio started 45 years ago, and I've been arcund ever since.

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SIGNALS & NOISE

We Sell Subscriptions One at a Time Dear Editor:

I received my first issue of Audio (December 1991) and immediately wondered if I made a gross error in subscribing. I notice from the annual subject index that not one receiver was reviewed during 1991, but in the December issue a tube amp was reviewed that costs more than my entire system of Sony ES components and Klipsch Chorus speakers. (I certainly remember tubes from my Bogen DB 20 days, and those 6L6s warmed my room.) My question is this: Is the lowly receiver below the dignity (whatever) level of Audio to test and review? I am a professional, but I drive a Chevy; reading about Mercedes-Benzes really does not help me. Also, most of us beer drinkers really don't like champagne. Should I ask for a refund of my subscription, or is there hope for us "beer" component people?

Robert E. Wallace Tazewell, Va.

Editor's Reply: Thanks for your wellwritten and thoughtful letter. Ones like yours are fun to answer, even if I do have to admit that maybe we shouldn't have been your first choice in magazines on hi-fi.

Anyway, yes, we do review receivers, but I don't think enough of them to satisfy you. However, it is my "informed" opinion that the same money can be better spent on separates, and it's magazines like Audio that can tell you which brands to look at for Ferrari quality at Chevy prices, i.e., used gear or bottom-of-the product line. Yes, we do tend to review the top-drawer models-so that we can find out about all the features-but you are the one who decides whether you need all that stuff. Also, our top-drawer approach is to help distinguish us from our sister publication, Stereo Review, which does take a more moderate approach, for novices relative to our pro leanings. I think you may be happier with them, if you've budget for only one magazine. On the other hand, you're not a firsttime buyer, so maybe you should educate your palate. . . .--E.P.

Reader's Response: Thank you for replying to my letter. I have decided to stick with your magazine even though I am not an audiophile—meaning that I cannot differentiate the sound of 12gauge from 14-gauge speaker wire. I really do enjoy the technology, but it is only a tool in the pursuit of my first and true love: Music.

As a beer/Chevy person, I do not demean your Ferrari/champagne fellows, nor do I envy you. However, I look forward to being taught that the grass is really greener on the other side.—*Robert E. Wallace*

Manic Compression? Dear Editor:

Len Feldman and Ivan Berger's review of the Delco/Bose Gold Series (September 1991) was good as far as it went, but it failed to call attention to two annoying shortcomings of the Compact Disc player for the Cadillac. I have had two units, the original and its replacement.

First of all, the difference in the audio levels of radio and CD is substantial,

the CD being much louder. Adjustment is absolutely essential before switching from radio to CD! Secondly, when compression is engaged, a fairly loud noise, which might be described as a pop, smack, or slap is heard with the first note of each number on the disc or when switching from radio to CD. Also, staccato notes are unduly accented. Otherwise the system is quite satisfactory, which is fortunate since there are no options once the Delco/Bose system is purchased. If the reviewers did not encounter such problems, the unit may have been improved since I acquired mine.

Warren L. Slagle Knoxville, Tenn.

Author's Reply: I encountered none of the problems Mr. Slagle cites. I can't be sure, at this point, whether I ever switched directly between radio and CD (though I probably did so), but I did use the compression without any problem. —I.B.



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Bias Adjustment Procedure

Q. I recently purchased a cassette deck with fine bias control, three heads, HX Pro, and other features. I am a bit perplexed as to how I should achieve optimum bias adjustment. In the June 1990 issue of Audio, Howard Roberson, in a sidebar to an article about Dolby S noise reduction, mentions using a 10-kHz tone to adjust bias. Is the 10-kHz test tone an acceptable and reliable means of adjusting bias? Is this adjustment affected by HX Pro circuit? Should this circuit be engaged during bias adjustment? Is the 10-kHz test tone from the CBS CD-1 test disc-referred to in many articles—an acceptable source of this test tone?-Thomas N. Snuggs, Jr., Albemarle, N.C

A. Roberson's piece perhaps did not bring out clearly enough that bias adjustment was performed by using both a 400-Hz and a 10-kHz tone of equal amplitude. His sidebar does mention that the deck he tested provides a 400-Hz tone.

Bias is adjusted so that both recorded tones have equal amplitude in playback. The procedure should be used at a level about 20 dB below the deck's 0-VU mark on its record level indicator. The reason for such a level is that the 10-kHz tone is subjected to a good deal of treble boost by the recordequalization circuit, and one wants to make sure that this does not result in tape saturation at 10 kHz, which would invalidate the adjustment procedure.

The foregoing is considered to be a reliable method of setting bias for the particular tape one is going to record. That is, it results in an optimum combination of extended treble response, high signal-to-noise ratio, and low distortion—or at least comes close to optimum. The person equipped with an audio signal generator, harmonic distortion analyzer, and audio voltmeter can probably arrive at a somewhat better optimum. But usually the bias adjustment so derived is only marginally better than that based on two tones.

In theory, the adjustment based on two tones should be made with Dolby noise reduction off, although better results are sometimes obtained with Dolby NR on. The same applies to HX Pro, assuming that the deck gives one the option of turning HX Pro off and on. The wise thing is to try the adjustment both ways, and settle for the method that audibly gives best results, if there is a difference. After adjustment of bias, check whether the program source and the playback sound identical on music or interstation FM noise. It might happen that there is a significant difference between source and playback, whichever method of bias adjustment you employ (Dolby NR on or off; HX Pro on or off). Then the appropriate step would be to adjust bias on the basis of comparing the program source with the playback of that source. If treble seems excessive, increase bias. If treble seems insufficient, decrease bias, but try to avoid going too far in this direction. Some very good authorities find that it is worth a slight drop in treble in order to keep distortion low; decreasing bias is apt to raise distortion.

The test tones employed for setting bias by the twin-tone procedure are supplied by some decks. Alternatively, they can be obtained from a test CD or LP, or from an audio generator.

At the risk of telling you more than you care to know about the subject (although other audiophiles might care), let me add that in the days when open-reel tape decks prevailed, there was a recommended bias adjustment procedure based on a single tone. This, depending on the manufacturer, was usually a tone of 1 or 2 kHz. The procedure was to start with low bias. increase bias until peak output of the test tone was obtained, and further increase bias slightly until output of the tone dropped about 0.5 dB. Accordingly, bias was placed in a region where slight changes in bias would not result in large changes in upper treble response.

If you have a problem or question on tape recording, write to Mr. Herman Burstein at AU-OIO, 1633 Broadway, New York, N.Y. 10019. All letters are answered. Please enclose a stamped, self-addressed envelope.

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Power Transformers and Sound Quality

Q. I recently had the power transformer in my receiver replaced because of a low-level "buzzing" noise that it was producing mechanically. The original transformer checked out okay electrically and the receiver had been functioning properly

According to the technician who performed the work, the new transformer is also performing properly Strangely, the receiver now seems, subjectively, to produce deeper and more powerful bass. This improvement is slight, but extended listening has convinced me it really does exist, even though I was not expecting such a change. Unfortunately the improvement stops here because the depth perspective of the soundstage has changed from being rather laid back to a more forward, "in-your-lap" kind of effect. If I back off on the midrange controls on my loudspeaker systems a small amount, the soundstage is pulled back into proper focus, more closely resembling the soundstage that was present before the power transformer was replaced.

If the improved bass response is an indication, it would seem that the new transformer might be more efficient than the old one was Even so, shouldn't the voltage regulation in the power supply prevent any small changes in voltage from reaching the amplifier circuits and perhaps causing problems such as those I mentioned?—Dennis L. Chase New Cumberland, Pa.

A. First, could it be that the quietness of your listening environment occasioned by the new transformer has given the psychoacoustic effect of better bass and altered imaging, and that the actual sonic performance of the receiver is really the same as it was before the transformer was replaced? I lean toward this conclusion because I know for certain that the masking effect of the kind of background "buzzing" you have described can often be considerable.

Second, I wonder if the technician performing the transformer transplant found some other problems with your receiver and took care of them without mentioning this to you Obviously this could account for the sonic differences between "then and now" that you have been perceiving.

As long as the imaging can be made to your liking by a simple adjustment of a couple of controls, you don't have a problem. I find it difficult to believe that the original transformer should have a significantly different d.c. resistance from the new one. Of course, if the original unit had a higher d.c. resistance than the new one, the receiver's power bandwidth would be increased.

Replacing Audio on Videotapes

Q. Is there a way to record, or dub, music onto a previously recorded videocassette? Can it be done without losing the original video portion of the program? If it can be done, please tell me how and what equipment will be needed — Pansy Caldwell, Moody. Tex.

A. The linear audio track or tracks that run along the edges of VHS tapes can be replaced easily. HI-Fi audio tracks, which are recorded as FM signals mixed with the video, cannot, except by recopying the entire tape. However, VHS HI-FI VCRs always have linear audio as well.

IDIOCI

Many VCRs have audio dubbing switches that let you overdub a tape's linear aud o track while watching the picture to see where you are. Unfortunate'y. I see fewer and fewer new machines that have this feature. If your VCR doesn't have it, see if a friend's VCR does, and redo your soundtrack at his house.

In the case of a Hi-Fi tape, recopying it in order to make a new Hi-Fi track will give you the greatest audio fidelity and will let you record in stereo. (Most Hi-Fi VCRs have only monophonic linear tracks.) However, the picture quality of your copy will suffer.

If you have a problem or question about audio, write to Mr. Joseph Giovanelli at AUDIO Magazine, 1633 Broadway, New York, N.Y. 10019. All letters are answered. Please enclose a stamped, self-addressed envelope.

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CARS, KARAOKE, AND DOUBLE DIN



DADSIGNS

IVAN BERGER

A Somewhat Different Country Car stereo has always been a bit different in Japan. A decade or so ago, fancy Japanese car sound systems used multiple components separate tuners, tape decks, amps and equalizers—with separate controls, as home systems do. The ergonomics were nightmarish, but from what I've seen, Japanese drivers spend even more time sitting still in traffic than we do, which gives them plenty of opportunity to find whatever controls they want to operate.

Modern cars leave no room for such set-ups, but many Japanese cars and a few U.S. trucks and vans have double-DIN stereo slots, and many double-height head units are available. At least three companies (JVC, Pioneer, and Sanyo) now offer them over here as well, and Panasonic sells one in Europe.

In the most recent issue I've seen of Japan's Auto Sound magazine, I note still other differences: Installations are shown in such cars as the Toyota Soarer, Mazda Sentia. and Eunos Presso, which are not available here, at least under those names. In-car video systems abound. Diagrams of DSP systems show the driver sitting in the right-hand seat. Sing-along fans in Japan have been able to get car karaoke for a while. Now it's available in the U.S., too, as part of Pioneer's FH-M75 double-DIN head unit and as a Sanyo-built tape player, the PAT-C10, available from Zenasia in Carson, Cal. Both units have circuits that cancel out the center signal, eliminating most vocals, so you can sing along with the records of your choice instead of needing special karaoke recordings. The Pioneer unit also has a safety alarm that can wake the driver at preset intervals. The Zenasia unit. which can also be used at home, has pitch control to bring the music more into your vocal range, and an echo circuit (de rigeur for karaoke systems in Japan).

I suspect car karaoke will catch on here quicker than regular karaoke will, since Americans are probably less inhibited about singing in the privacy of their cars than about singing in public. (Even the Japanese, however, seem to need a little loosening up before picking up a mike—karaoke is most popular in bars, there.)

The installations shown in Auto Sound are slick, but pretty much in the mold of good custom installations anywhere. I did, however, notice a Nakamichi changer built into the back of a Porsche 928 hatchback's rearseat headrest. The passenger in the other rear seat can reach it to change disc magazines—and the driver can, too, when the seat is folded forward. Of course, that highly visible changer would be a magnet for thieves in a less law-abiding country than Japan.



So would the amplifier shown proudly mounted on a car's rear package shelf in a Bose ad.

A Bose ad? Yep. Bose is active in the Japanese car audio aftermarket, selling equipment you don't see in the U.S. And Japanese equipment that you do see here is likely to be sold there under such names as Excedio, Carozzeria, MacAudio, and AddZest.



Answered Prayer

Most of the controls on my Merkur Scorpio (actually a European Ford) are rocker switches with a pleasantly intuitive touch-coding system. The end of the rocker with the projecting bump turns things on, turns them further on, or raises them; the end with the matching dimple does the opposite. This is an international standard on Ford products—in the U.S., the Ford Taurus, Mercury Sable and Lincoln Continental use it, too. One day, I noticed the same system at work in an Oldsmobile. "Aha!" thought I, "If it's this close to universal, car stereos should also use it." The next day, some visitors from Blaupunkt showed me that it already was in use, at least on some of their models. On the Philadelphia SQR 49 shown here, for instance, the code is out for up or fast forward, in for down or reverse. The Blaupunkt New York uses this coding, too, but only on one rocker switch.

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CAMBRIDGE SOUNDWORKS

Calling All Cars

Perhaps it's appropriate that this idea comes from a Detroit-area audio club, the Southeastern Michigan Woofer and Tweeter Marching Society. A contributor to the Society's newsletter suggested the following "subjective evaluator's criterion":

"Take your vehicle to a quiet spot, crank up the stereo, and see how many squad cars come to investigate. The more cars, the better the system."

Buy in the Sky

Ever wish for a way to jot a record's name down on your shopping list when you hear it played on your car radio? By 1994, you may be able to do better than that-and order the record as you drive. A company called RadioSat hopes to have a satellite-to-car radio service up by then, with voice interaction. You'll not only be able to get the programming you wish merely by saying "Jazz" or "Classical" to your radio, but will be able to mail-order records and other merchandise as you drive. Judith Gross, writing in the trade journal Radio World, points out that stations will also be able to use RadioSat to poll listeners on their opinions of new records.

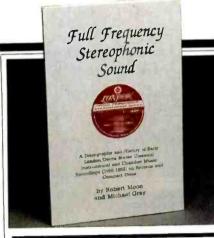
Fan Club

30

With the growing emphasis on the cosmetic aspects of car stereo installation, amplifiers are increasingly often buried in hidden compartments. where ventilation is scarce. As a consequence, more and more manufacturers are building inside-out amplifiers, with their heat-sinks buried in a tunnel through which air is driven by a built-in fan. Concord, Harman Kardon, Orion, Proton, Rockford Fosgate, and plenty of others make such amps. And for those who already have amps with external heat sinks, dB Speakerworks, of Shreveport, La., has a line of Amp Cooler enclosures with built-in fans. The units range from \$140 to \$200, depending on their size and number of fans, and their amplifier compartments have carpeted floors and transparent covers to show off the amps insidethe cosmetic emphasis, again.

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THE BOOKSHELF



Full Frequency Stereophonic Sound by Robert Moon and Michael Gray. Softcover, 83 pp., \$25. Available from Moon at 349 Ellington, San Francisco, Cal. 94112.

This book is subtitled A Discography and History of Early London/Decca Stereo Classical Instrumental and Chamber Music Recordings (1956-1963) on Records and Compact Discs. While private printing for a limited readership is expensive, the \$25.00 cost of this book is far too much.

The section titled "FFSS and How It Grew," by Michael Gray, gives valuable information on the history, sequence, and people associated with Full 'Frequency Stereophonic Sound and Full Frequency Range Recordings. The writing style seems a bit convoluted, making the historical sequence a bit difficult to follow, but a second reading makes it clearer. Throughout the book, abbreviations and terms such as "outriggers," which may be unfamiliar to the reader, should be clearly defined when first used rather than by usage later in the text.

The section titled "Stereo and the Modern Orchestra," by Ivan March, is confusing until one reads, at its end, that it is a reprint from 1961. For clarity, this should have been stated at the beginning of the section. The same applies to "Reverberation and Microphone Placing for Stereophonic Recordings"—a reprint from 1963.

The remaining sections, probably mostly by Robert Moon, although this isn't clear, are devoted to record ratings, reviews of "The Best Records," artists, Compact Disc reissues, and label and pressing information. Record reviews, in general, have a large subjective element, and these are no exception. While listeners may disagree

with some of the opinions, the reviews and ratings are done in a logical straightforward manner, offering helpful insights for the critical listener of these hard-to-find and sought-after early LPs. No recording dates are given in the ratings section, and, as indicated by the subtitle, none of the many excellent opera recordings of the era are covered. Also, some of the abbreviations used in the rating chart, while defined in the previous text, should be clearly restated in the symbol definition section for readers not familiar with these terms.

The "Best Records" section gives the author's opinion of why the recording is outstanding, both technically and artistically, and does include recording dates. The opinions can help the collector be on the lookout for items considered by many to be especially noteworthy. The artists section gives brief biographical comments and touches on the relationship between artists and the early recording engineers. I found the material on Ernest Ansermet, who spans the full range of conducting on records from acoustic 78s to stereo LPs, especially interesting. The "Labelography" section gives seven black-and-white examples of the labels discussed

As discography, this book is a good beginning for those devoted to these early stereo recordings, but it is far from complete. It should be expanded to include more recordings, especially opera and vocal. As history, the book is also a good beginning, filling in some mostly blank pages. It is tantalizing not only in the outline that it gives but in the wealth of material that it leaves out. While the historical relation-, ship to Mercury's Living Presence recordings is mentioned, more information on these as well as other quality recordings of the time, such as the mono Westminster Laboratory Series (extraordinarily advanced for their time), would be useful. Perhaps Gray's upcoming book on the history of this era will fill in the details. I cannot help but feel that for \$25.00, the reader should get more than good beginnings. A second, enlarged and revised edition of the present book is to be hoped for and, if sold at a more moderate price, should appeal to a much wider readership. Michael R. Lane



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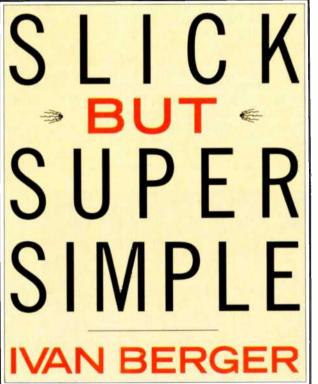
"I wanted a warm-sounding system that looked stock—as inconspicuous as possible. And I wanted to maintain all the Explorer's cargo space," says the owner of this '92 Ford Explorer. Rick Trover, of Crusin' Music in East Hanover, N.J., obliged with the slick but simple system you see here. All that remains of the Explorer's stock sound system is the FM/

AM antenna. The stock head unit was replaced by a \$600 Alpine 7618, which also controls a compact Alpine 5959 six-disc CD changer (\$850) neatly tucked into the center armrest.

The main speakers are two-way Polks: MM 3055 systems (\$349.95 per pair), with 51/4-inch woofers, in the front doors, MM 3065s (\$369.95), with 61/2inch woofers, in the back doors. The back doors were used because there's no rear parcel shelf to hold the speakers, but this also gives better imaging to

rear-seat passengers. A custom, sealed enclosure, of about 1 cubic foot, holds the two Kicker Competition C-6.5 woofers (\$75 each) in the back.

The amplifier, a Phoenix Gold MQ430 (\$599.95) is mounted under the rear seat. Though its four channels are rated at only 30 watts apiece into 4-ohm loads, it's actually



delivering a bit more. The subwoofers, wired in parallel to make a 2-ohm load, are wired across the hot terminals of the two rear channels (with a \$50 PAC passive, 80-Hz low-pass filter ensuring that the subwoofers only woof). According to Phoen x Gold, the amp should be able to deliver about 100 watts from the rear channels in that configuration.

> A VSE Stealth Plus alarm stands watch over it all. Other non-audio electronics include a Bel 932R radar detector (\$279.95), and a Pioneer PCM 300 cellular phone (\$595) with a Hirschmann roof-mount antenna (\$125). The wiring consists of Phoenix Gold speaker cables and tripleshielded interconnects. plus Monster power cables. Trover states Crusin' Music's labor bill at \$2.000.

> The system's sound has the desired warmth, with deep, tight bass you might not expect from such small

woofers and such a moderate-sized amp. There is a hole in the middle of the image with the fader control cranked to yield a forwardimaging stereo stage, but that's not at all surprising in a car of the Explorer's width curing that with a center speaker would have simply been incompatible with the stock look of the system.

PHOTOGRAPHS: © BILL ASHE



Alpine's 7980 puts a CD changer in the dash.

> his year's Winter Consumer Electronics Show made two things plain about car stereo: We're headed for a thoroughly digital world—but we're not there yet. The trend towards digital was made clear in many ways. For example, much of the rise in sales of in-dash CD players is accounted for by sales of players with built-in amps. This means CD's appeal is broadening to people who don't install fancy, multi-amplifier systems. (It may also help that many new self-amplified head units, both tape and CD, deliver about 25 watts per channel instead of



Nakamichi's new changers are hermetically sealed for isolation from trunk-mounted speakers. the 4 to 10 watts that buyers of in-dash players formerly were stuck with.) Changers are getting more compact, so they can move out of trunks and into passenger compartments. Sony has shrunk its 10-disc changers to the size of earlier six-disc models. New, smaller models from Panasonic (the CX-DP60, $25_{\rm H}$ in. × 11 in. × $61_{\rm Z}$ in.), Denon (the DCH-700 (2 in. × 10 in. × 7 in.), and others can fit into some armrests and glove compartments, or under seats. Denon's can even fit a DIN opening, though few DIN radio slots can ac-

IVAN BERGER

commodate its 10-inch depth. Alpine's 7980 in-dash model includes not only a tuner but a three-disc changer, yet fits a standard DIN slot (albeit with a separate, remote subchassis for its tuner circuits). The Alpine only holds three discs at a time, but if it's within reach, that's no problem.

Winter CES

Sacrificing compactness for capacity, JVC introduced its XL-MG1800, which holds three, six-disc magazines, enough for more than 22 hours of play if you pick long CDs. If that's not enough, you can control six of these changers from JVC's KS-RG7 or KS-

> RX770 cassette receivers or KS-RM18 controller unit, and play music 'round the clock for more than five full days or nights! For that matter, Sony's UniLink control system now allows the use of a single controller for 10 of its 10-disc changers. (I suspect that only yacht owners will exercise these monster options.) On a more modest scale, two of Audiovox's CDC-700 changers can be linked to make a 20-disc system.

> Changer manufacturers are growing more aware of automotive installation and operating problems. Every changer I know of can be operated either lying flat or facing up, and Clarion's compact new 6201CD (only 2% in. thick) can be set up for any mounting angle within a 120° range. (The Clarion also uses a single cable for all signal, control, and

power connections, making installation easier.) To minimize the effects of road bumps, Clarion, Kinergetics, Sanyo, Nakamichi, and Yamaha (among others) have oil-damped suspensions. The Acoustic Isolation System on Nakamichi's 100cdc and 100cdc/i changers includes not only a triple suspension but a hermetically sealed housing to ensure that the CD and laser won't be shaken by pressure waves from trunk-mounted speakers,

The difference between the two Nakamichi models is that only one, the 100cdc/i, has a

et Sounds



built-in D/A converter. The other requires an external one. Several are available: Nakamichi introduced a stand-alone D/A unit (and a changer with both analog and digital outputs) last year; this year Soundstream is introducing one designed by Krell, Coustic will have one designed by Kinergetics, Kinergetics will have one of its own, as will Alpine, Blaupunkt, and Eclipse.

A glance at the "CD Changer" category in our Car Stereo Directory section (being compiled as I write this) shows other converters. The Kinergetics and Coustics units are one-

bit designs with Class-A balanced analog sections and three digital inputs (two coaxial, one fiber-optic). Soundstream's Krell design is a hybrid, feeding the upper 10 bits from its 18-bit filter to a ladder converter and feeding the lower eight bits to a one-bit converter circuit. Naturally, all these companies and more are offering changers with both digital and analog outputs. The Eclipse ESD-510 and Soundstream CD308 in-dash CD players will also have both types of output.

Fiber-optic connections are more

common in car components such as these than in home components, to eliminate potential pickup of interference from the car's electrical systems. They'll grow more common yet, as systems tend toward the totally digital. Sony's Mobile ES system, introduced last year, is a case in point. It has no audio equipment in the dash at all, just a display and control unit for a suite of trunk-mounted components that include one or more CD changers, an FM/AM tuner with diversity (dual front-end, dual-antenna) reception, amplifiers, and two digital signalprocessing (DSP) units. The first of these, the XES-P1 provides digital sound-field con-

trol, six-band parametric equalization, and nine-step dynamic-range compression; up to 10 combinations of these settings can be memorized for instant selection or automatically linked to individual CDs in the changer. The second DSP unit, the XES-X1, is a digital crossover that provides nearly infinite crossover slopes without phase shift, plus digital time delays to compensate for speaker placement problems in the car.

Alpine's new Digital Link systems are similar in concept, if slightly less elaborate. The "Digital-Pure" version includes a controller Blaupunkt's Las Vegas incorporates a cellular phone and a tuner that can receive RBDS datacasts over the air.

Sanyo D²SP-01 DSP unit.



(the 1310) with trunk-mounted tuner mcdule, a CD changer, and the Model 3681 multiinput crossover with digital time correction, plus amps. The Model 1310 controller has a detachable front panel for theft protection, and includes a memory that holds the first

Car stereo is definitely digital world—but there is still



Sony's Mobile ES system was a major first step towards the all-digital car stereo system.

Coustic's DA-55 D/A converter is designed by Kinergetics. few seconds of music from each CD currently in the changer, so you can scan through your discs without waiting for, or putting wear on, the changer. Its tuner section, which features ID Logic (more on that later), can be mounted in the trunk, eliminating all analog audio gear from the passenger compartment. The "Digital Interactive" version optionally substitutes the Model 7618 head unit for the 1310, and substitutes the Model 3362 crossover and DSP unit for the Model 3681. The Model 3362, designed for dashboard mounting, has ambience circuits and separate nine-band equalizers for front and rear plus a center-channel output and a digital subwoofer crossover fixed at 80 Hz. Both the 3681 and 3362 have one analog and three fiber-optic digital inputs apiece.

Combining digital ambience and equalization, as Alpine's 3362 does, is an inevitable trend. Pioneer's KEX-M900 (Audio, Dec. 1991) head unit was about the first component to combine the two, followed closely by such signal processors as Clarion's DSP 959 and Yamaha's YDSP-1. Now Sanyo has joined in with its D²SP-01 (which has a 40watt center-channel amp), Denon with the DCX-100 (which combines DSP with a D/A converter, a tuner, a changer controller, and a subwoofer crossover, plus A/D conversion for its two analog inputs), and Eclipse with the EQS-2000 DSP (which uses a remote microphone to adjust both sound field and EQ). The Eclipse's built-in EQ has three bands for the front of the car and four for the rear, but adding the EQU-8040 equalizer module increases this capacity to five parametric and seven graphic equalizer bands apiece for front and rear

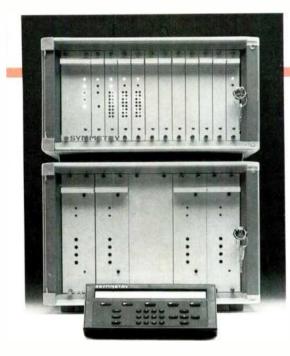
Of course, you needn't go all-digital to confine the working parts of a stereo system to the trunk. Rockford Fosgate's Symmetry components-actually large circuit cards that slide into card-cage racks-will soon include an FM/AM tuner whose presets can be scanned by program format, as well as CD changer control, amplifiers, crossovers. user-set equalizers, and a DSP equalizer that checks speaker output with a microphone, then adjusts each speaker's signal for flat response. With this setup, the only thing that need be in the passenger compartment is the controller, the Remote Digital Access Terminal (RDAT for short, a name bound to cause confusion). Other signal sources can be hooked in via external modules that convert their outputs from unbalanced to balanced and raise their levels to about 30 V, to combat interference. The only digital parts are the controller, the DSP card, and a device controller with eight (optionally 16) relays that can be made to turn things on and off in programmed sequences at preset times.

Digital circuitry is also responsible for a number of systems that let you find radio stations by program formats. The simplest of



these to implement are systems that let you enter your favorite stations and their program formats into memory. Besides Alpine's Model 7618 (with memories for 54 stations) and Rockford Fosgate's forthcoming Symmetry

neaded for a thoroughly



tuner, you'll find this on Clarion's new CAL-1000 (with memories for 60 stations) along with a built-in cellular phone and CD changer control, Blaupunkt's Las Vegas, due late this year, also has cellular phone and changer control, but its tuner will use a system called RBDS, which identifies station formats through digital subcodes in their broadcasts. And the Alpine 1310, mentioned earlier, uses an updated version of the PRS ID Logic system, that lets you find the station format of your choice, almost anywhere in or near the U.S., through an automatic scan of a built-in database of North American stations. (Panasonic's CQ-ID60, also with ID Logic, is reviewed elsewhere in this issue.)

The Radio Broadcast Data System (RBDS) is the North American version of the RDS system now used in Europe. With this system, stations broadcast digital data packets on an FM subcarrier, conveying such information as station call letters, location, and program content, as well as traffic and emergency information, paging services, and other codes. In Europe, "linking codes" let tuners replace fading signals by seeking out nearer stations carrying the same program; here, where network radio has largely disappeared except for National Public Radio and some news and sports, the chances of finding such a station would be slim.

The trouble with RBDS is that most stations won't adopt it until a lot of radios can pick it up, and people won't look for such radios until RBDS is on the air; it's taken Europe about seven years to attain widespread

a way to go.

adoption. The ID Logic system is less versatile (no paging, no emergency or traffic info, and no ability to follow hour-by-hour changes in station programming), but it works on AM (RBDS is FM-only), it works right now-and it works better all the time. For example, the version in the Alpine 1310, in addition to the six station-format selector buttons on our Panasonic, has a seventh that the user can program for any one of another 18 formats stored in the ID Logic chip. Pierre Schwob, the inventor of ID Logic, has found a way to make it take advantage of RBDS. The current ID Logic system allows users to update a few stations manually as station formats change; Schwob's proposed ID Logic B system would update itself automatically, from information broadcast via RBDS. Unlike RBDS itself, this system would work well even if only one station in a market broadcasts RBDS signals

The Rockford Fosgate Symmetry system uses rack-mounted circuit cards instead of stand-alone components.



Diversity tuning, which selects the best signal from two or more antennas, has held on for years but never quite caught on. Still, its two main proponents keep improving it. Blaupunkt's Sante Fe head unit now selects for minimum multipath rather than maximum signal strength, which should yield cleaner sound. Sony's CDX-U8000 in-dash CD unit, and the tuner module of the Sony ES system mentioned earlier, have separate front ends for each antenna. The ultimate may be Blaupunkt's Auto Directional Antenna (ADA), a phased array of four concealed foil antennas linked to circuitry that steers the array's coverage pattern towards the signal through phase manipulation. So far, there are no ADA models announced for the U.S., but at least one is now sold in Europe. А

Denon's DCX-100 combines DSP with a tuner and a CDchanger controller. © 1992 Lexus, A Division Of Toyota Motor Sales, U.S.A., Inc. Lexus reminds you to wear seat belts and obey all speed laws. For more information, call 800-872-5398 (800-USA-LEXUS). *Maximum power

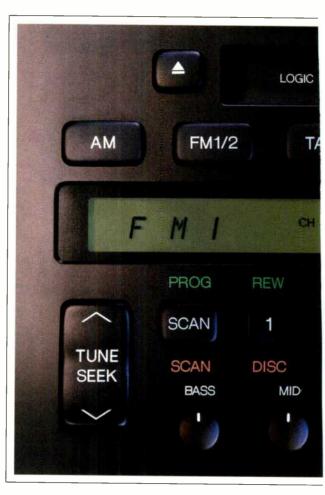
o hear the hum of the Lexus SC 400's Four Cam, 32valve engine is definitely a pleasure. But you have to admit, there will probably be times when you'll want to hum along with something a bit more musical.

Enter the optional Lexus/Nakamichi Premium Sound System with twelve-CD auto-changer, perhaps one of the finest audio units ever to be installed inside an automobile.

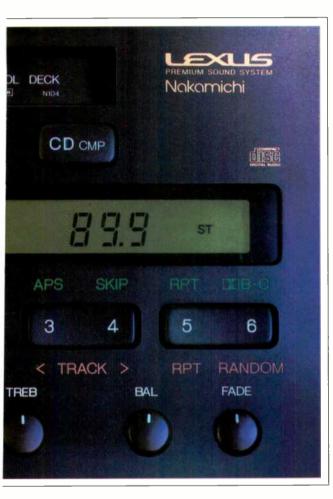
Dare we say, even a living room.

A total of seven speakers occupy the cabin: two tweeters, four extended-range speakers, and a ten-inch subwoofer. Each one placed in a distinct location to enhance sound imaging.

Turn up the volume and the first image that comes to mind is front row seats, thanks to 280 watts* that, at your discretion, can send a musical note to a place about four inches beneath the sternum. But power is nothing without finesse. That's why



active high- and low-pass crossovers feed



specific frequencies that match the optimized operating range of every speaker. Equalization circuits (we'll spare you the details) are also used to tailor sound reproduction to the interior design of the car.



this means phenomenal sound quality. "The finest system you can buy in a new car" is how Car Stereo Review translated it (Motor Trend magazine, on the other hand, took a more direct approach by simply naming the entire car 1992 Import Car of the Year).

> Of course, if you ever decide to turn off the stereo, you can always listen to how well the engine carries a tune.



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EQUIPMENT PROFILE

PANASONIC CQ-ID60 CAR STEREO WITH ID LOGIC

Manufacturer's Specifications

Amplifier/Preamplifier Section Power Output: Rated maximum, 22 watts per channel at 400 Hz; EIA, 9 watts per channel into 4 ohms, 20 Hz to 30 kHz, at 1% THD.

Preamp Output Level: 0.6 V (ref. level: tape, 0 dB).

Tone Control Range: Bass, ±10 dB at 100 Hz; treble, ±10 dB at 10 kHz.

Loudness Contour: +8 dB at 100 Hz, +6 dB at 10 kHz.

Recommended Speaker Impedance: 4 ohms.

FM Stereo Tuner Section

Usable Sensitivity: 13.2 dBf. 50-dB Quieting Sensitivity: 15.2 dBf

Frequency Response: ±3 dB, 30 Hz to 15 kHz.

S/N: 70 dB. Capture Ratio: 1.5 dB. Alternate-Channel Selectivity: 75 dB. Stereo Separation: 42 dB at 1 kHz.

Image Rejection: 55 dB. I.f. Rejection: 100 dB.

AM Tuner Section

Frequency Range: 530 kHz to 1710 kHz.

Usable Sensitivity: 28 dB/ μ V; 25 μ V for 20 dB S/N.

Tape Player Section

Frequency Response: 35 Hz to 14 kHz with Type I tape, 35 Hz to 17 kHz with Type IV tape. Wow and Flutter: 0.09% wtd. rms. S/N: 62 dB with Dolby NR, 52 dB with NR off.

Fast Forward/Rewind Time: Less than 105 S for C-60 tape.

General Specifications

Power Supply: 11 V to 16 V, test voltage at 14.4 V, negative ground.

- **Current Consumption:** 2.5 A average at 0.5 watt output into all four channels; maximum 5.0 A.
- Dimensions: Main unit, 7 in. W × 2 in. H × 5% in. D (17.8 cm × 5.0 cm × 15.0 cm): bracket, 7³/₁₆ in. W × 2¹/₁₆ in. H × 6% in. D (18.2 cm × 5.3 cm × 15.5 cm).
- Weight: Main Unit, 3 lbs., 8 oz. (1.6 kg); bracket, 10 oz. (0.3 kg). Price: \$379.
- Company Address: One Panasonic Way, Secaucus, N.J. 07094. For literature, circle No. 90



The farther you go from home, the harder it is to find radio programs you like. On the road, you can miss even common flavors like rock and easy listening if you happen to hit the appropriate stations during commercials. But not if you use the CQ-ID60. Its ID Logic system (from U.S. inventor Pierre Schwob) incorporates a data base of more than 10,000 stations in more than 4,300 towns and cities in the U.S., Canada, and northern Mexico, all keyed to map grids 30 miles square. In ID Logic mode, you tell the system where you are, tell it what kind of programming you want, and let it find the stations for you. It will also tell you the call sign, city, and state of each station it finds.

More conventional features include 18 FM and six AM station presets, an auto-reverse cassette player with Dolby B NR, and a quick-release mounting bracket. It also has a front-panel jack for use with a portable CD player, switch-able amber or green illumination, and a circuit that mutes the stereo when a cellular phone is in use. Amplified and preamp-level outputs are provided for both front and rear channels.

Control Layout

In traditional fashion, the CQ-ID60 has its volume control at the left, tuning controls at the right, and station-selector

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WHAT DOES IT TAKE to build the finest speaker at this price? Quite simply, better design execution and better materials. So, rather than typical inferior cone-type tweeters, the TITAN uses a wide-dispersion *dome* tweeter complete with high-temperature voice-coil, aluminum former and ferrofluid damping and cooling. Instead of lesser paper-cone-type woofers, the TITAN woofer uses a polypropylene cone with a high compliance suspension, high-temperature voice-coil and kapton former. Add to this a seamless dividing network and the results are outstanding! Musical, three-dimensional, the TITAN offers performance that belies its astonishing low price.

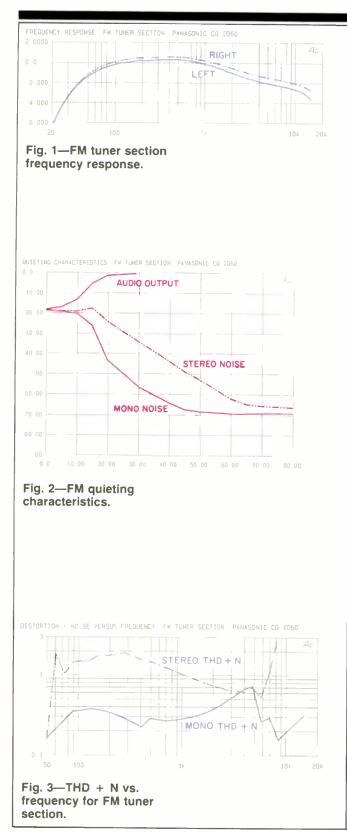
YOU WON'T FIND PARADIGM speakers everywhere. Product this good requires the expertise of a qualified audio specialist. So, before you buy any inexpensive speaker, visit your AUTHORIZED PARADIGM DEALER and listen to the amazing TITAN. What you will hear is music... for a sang!

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Enter No. 22 on Reader Service Card

Tell the CQ-ID60 where you are and what kind of programs you want, and it will find them for you.



buttons under the display. Tradition ends there. The volume control is an up-down rocker (labelled "Audio") whose function changes from volume through bass, treble, balance, and fader back to volume each time you press the small "Select" button set into it; when you use the rocker, the display shows both its current function and setting. A button just above it toggles a volume attenuator on and off; holding it down for at least 2 S toggles loudness compensation on and off instead.

The main tuning controls are four buttons in a rectangular array at the far right. They control up and down tuning (manual if pressed quickly, automatic if held down for half a second), "P-Set" (preset scan if pressed quickly, automatic memorization of the six strongest signals on the band if held down for at least 2 S), and "FMO." That last button switches in the FM Optimizer, which gradually reduces stereo separation and treble response as the signal weakens; it also mutes the tuner if the signal disappears when you drive into a tunnel or underground garage. In ID Logic mode, these same buttons are used to tell the system when the car has moved to the next 30-mile square in any compass direction. The illuminat on color switch is just above the tuning array, and the CD input is just below.

The tape slot, at the top center, is flanked by the buttons for eject and for fast forward and rewind; pressing the latter two at once reverses the tape direction. During tape play, the display just below the loading slot shows "TAPE" in big letters, with an upward or downward arrow to show which side of the tape is playing, plus small indicators for "MTL" (Type II or IV tape equalization). Dolby NR, and Tape Program Search ("TPS"). The display also shows a big "CD" when the CD input is in use; that input is activated by pressing a button just to the left of the display but is deactivated by pressing the "Band" switch at the lower right or by playing a tape.

Also to the left of the display is a tiny rocker. Pressing its left side quickly selects display of station call sign, location, or format instead of frequency; holding it down at least 2 S enables or disables a beep tone which confirms that a button has been pressed. Pressing the right side of this rocker switches between normal and ID Logic modes. Six large key switches below the display area select individual preset memories (or set them, if you hold the button down for 2 S). In tape mode, the first three select tape type, NR, and "TPS." And in ID Logic mode, the six keys tune stations by program format. The "Band" key, to the right, selects AM or FM and cycles through the three sets of FM memories.

Changing to ID Logic mode gives most of these controls new functions. When you first set up the CQ-ID60, you should go into this mode, then use the "Select" button and the "Audio" rocker to scroll through a list of states, then cities, to program it for your home location. After that, when you're in ID Logic mode, the tuner will find classical, country and western, rock, jazz, easy-listening, or talk stations when you press the appropriate key switch. If you leave town, use the four tuning buttons at the far right to show what direction you're moving in, and ID Logic will update its station selections to match your new location. If no station is found in the category, the display will tell you whether it's because there's no such station or because none of the stations on

Season tickets for a lifetime.

The season b=gins tonight. In the comfort of your own home. No parking hassles. No babysitter. No annoyar.ces from the guy in the row behind you.

With the D400 stereo power amplifier coupled to your speakers, your favorite performers will be right there with you, as you've never heard them before. Palpable. Holographic. Immediate. With the most explosive dynamics heard outside of a concert hall. Simply put, the D400 will transport you. Thanks to the enormous reserves of musical power lurking within the D400's classic, understated exterior. And to sophisticated leading-edge circuitry that focuses and clarifies instrumental timbres as only a great seat or the finest tube amplifier could do before. Without maintenance.

So, why not enjoy the best seats in the house? Your house, every night of the year. Audition the D400 soon at your nearest Audio Research retail specialist.



5740 Green Circle Drive / Minnetonka, Minnesota 55343-4424 / Phone: 612-939-0600 FAX: 612-939-0604 Enter No. 3 on Reader Service Card The ID Logic system found no fewer than seven local classical music stations, while I'd thought there were only four of them!

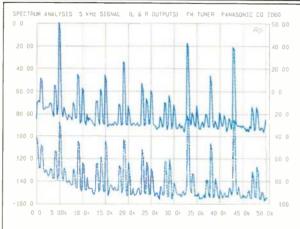


Fig. 4—Spectrum analysis, FM stereo mode, one channel modulated with 5 kHz (solid curve), other channel unmodulated (dashed curve). Use the right-hand scale for the lower curve.

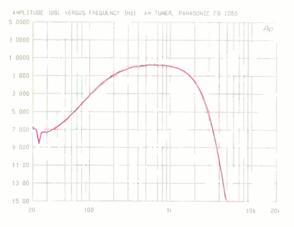


Fig. 5—AM section frequency response, using new standard $75-\mu S$ pre-emphasis and de-emphasis.

the list is coming in. A "NO DATA" error message means you've tuned in a station for which no information exists maybe you've driven to a new area without telling the system where you are. Information can be updated for up to eight stations as they change formats or call letters.

I would guess that the description of this unusual product will have you yearning for it, especially if you travel long distances. Let me simply confirm, before I give my lab results, that I was able to dial up the nearest city (New York, in my case), hit the "Clas" button on the front panel of the CQ-ID60, and come up with seven stations that offer classical for at least part of their programming day. And all the while I had thought there were only four!

Measurements

Figure 1 shows the frequency response for the FM tuner section. Response is down 3 dB at 32 Hz and at 13 kHz, but since the published specification claims uniformity within ± 3 dB, one could say this tuner meets that claim with several dB to spare, though I have seen considerably flatter response curves for car FM tuners.

Figure 2 shows the mono and stereo quieting characteristics of the FM tuner section. It takes about 25 dBf of input signal strength to achieve 50 dB of quieting in mono, as against 15.2 dB claimed by Panasonic; 47 dBf of signal strength is required to produce 50 dB of quieting in stereo. (Panasonic offers no claim for this important specification.) I strongly suspect that the FM tuner section of this sample could have been better aligned, since most earlier car audio tuners from this company that I have tested did far better in terms of meeting their specifications. At strong signal levels, best S/N for mono is about 1 dB short of the 70 dB claimed. In stereo, best S/N for strong signals was 66 dB.

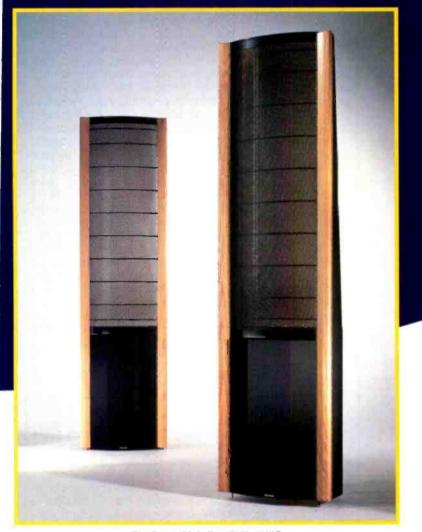
Without trying to detune my FM signal generator to produce lowest distortion, I plotted THD + N versus audio frequencies for the FM tuner in mono and stereo for a 65-dBf input signal (Fig. 3). At 1 kHz, mono THD + N is just under 0.3%, while at 100 Hz and 6 kHz, it measured 0.37% and 0.28% respectively. Distortion increases when stereo signals are appled so THD + N in stereo is just over 1% for a 1-kHz modulating signal, and 1.5% and 0.6%, respectively, for the other two test points of 100 Hz and 6 kHz.

When I measured THD + N versus input signal level, I found that usable sensitivity (the point of 3% THD + N) was 13.5 dBf in mono and 29 dBf in stereo; the mono figure is close to Panasonic's rated 13.2 dBf, and there is no stereo figure quotec. From those points, the THD + N curves (not shown) curved down sharply to about the 50-dBf point, after which there was only minor improvement with increasing signal strength. At 65 dBf, THD + N was about 0.25% in mono and about 1.2% in stereo, corresponding closely to the results shown in Fig. 3 for a 1-kHz test signal.

At mid-frequencies, separation fell short of even the 30dB mark, measuring around 27 to 28 dB. To the tuner's credit, it must be noted that separation remained fairly consistent all the way from about 100 Hz up to 15 kHz, where most FM stereo tuners' stereo separation decreases rapidly. I'd probably have found such blending had I tested the CQ-ID60 with the FM Optimizer switched in. But as neither the manual nor the Panasonic catalog says what it does, I decided not to measure its action.

Figure 4 shows a spectrum analysis taken at the left and right preamp outputs of the FM tuner section while modulating the left channel with a 5-kHz signal. The solid curve shows the components at the output of the left (modulated) channel while the dashed curve represents output from the right (unmodulated) channel. Note that the residual 19-kHz pilot carrier is attenuated by only about 37 dB relative to the desired 5-kHz audio output signal, while sidebands on either side of the suppressed 38-kHz subcarrier are attenuated even less, or about 20 and 23 dB. This is typical of car stereo tuners; they do not need to attenuate these high-frequency products to prevent problems with tape recorders, as home tuners do. A 19-kHz signal, 37 dB down at the





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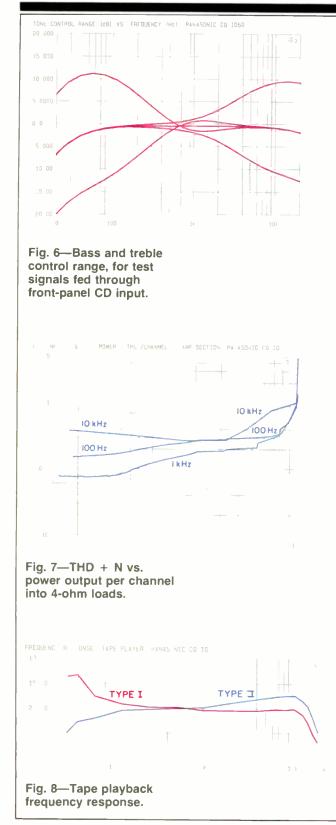
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I commend Panasonic for recognizing a need and jumping on the ID Logic bandwagon before anyone else did.



unit's output isn't likely to cause tweeter damage either. On the other hand, if you often travel with your dog in the car (or with young people who can still hear 19 kHz and beyond), this level of 19 kHz output might prove annoying.

The less said about the AM tuner section the better—note its unforgivably poor frequency response (Fig. 5). At least, Panasonic has included the newly authorized station frequencies out to 1705 kHz (in fact, it tunes a bit past that limit), so you'll be able to pick up any new stations or stations newly assigned to those upper frequencies.

Turning to the amp and preamp sections, Fig. 6 shows the maximum boost and cut of the bass and treble controls, as well as response with the controls set flat (middle curve), for signals fed in through the front-panel CD input. Note that, while the middle curve's bass response is about the same as that shown for the FM section in Fig. 1, its treble response is a great deal flatter. Results are about what I have come to expect from standard, garden-variety bass and treble controls. And while not shown graphically, the loudness compensation circuitry also worked about like that of other similar circuits, providing around 8 dB of boost at 100 Hz and about 6 dB of boost at the treble end of the spectrum when the volume control was set 30 dB below maximum.

I suspect that anyone going to the trouble of installing this sophisticated ID Logic unit in their vehicle is also going to install higher powered amplifiers with it. Nevertheless, since the CQ-ID60 is a complete receiver with its own built-in amplifiers. I felt duty-bound to at least test amplifier distortion versus power output at three key frequencies (100 Hz, 1 kHz, and 10 kHz). As Fig. 7 shows, the amplifiers deliver their rated 9 watts per channel at or below the rated value of 1% THD for all three test frequencies.

For the tape section I checked frequency response with Type I (normal bias) and Type II (high-bias) calibrated test tapes from BASF and TDK. These tapes were recorded at a level 20 dB below a reference magnetization level of 250 nWb/m. Figure 8 shows the results: I can't imagine why that slight rise at the low end occurs with the Type I tape—I checked that the tone controls were flat for both these tests—but the upper -3 dB point is reached at around 14 kHz, as claimed. For Type II tape, response extends to 17 kHz before reaching the -3 dB point, with a slight rise of about 3 dB at around 10 kHz; at the bass end, response extends down to 39 Hz before reaching the -3 dB point.

For Type I tape, A-weighted S/N measured 49.5 dB without NR, and 58.8 dB when Dolby B NR was applied during playback of my special "noise" tape (recorded with bias signal only). While these figures fall somewhat short of Panasonic's specifications, bear in mind that Panasonic's reference level may be the recording level that results in 3% third-harmonic distortion (a usual practice) rather than the 250 nWb/m reference I use, probably several dB lower.

I also measured the spectral distribution of tape noise, both with and without Dolby B noise reduction. The noise in either case rolled off steeply below about 15 Hz, and was mostly about -70 to -72 dB between that point and 400 Hz. Above that frequency, the curves diverged. Without NR, the curve levelled off from 400 Hz to 2 kHz, then rose again, to reach a peak of about -61 dB at 15 kHz. With Dolby NR, the noise level continued falling until it dropped below -80

The major controls were designed by someone who knows that car stereos aren't mounted at eye level.

dB from about 800 Hz to 3 kHz, then rose to a peak of only about -72 dB around 15 kHz—the usual 10-dB improvement one expects from this NR system at treble frequencies.

Finally, Fig. 9 shows wow and flutter, as measured by the weighted-rms and IEC peak-weighting methods. Over most of the 25-S measurement period, wow and flutter measured around 0.15% weighted rms, a bit poorer than the 0.09% claimed by Panasonic. Using the more rigorous IEC peak weighting system, which more clearly reveals speed variations over the test period, shows that speed variation occasionally reached peaks of more than 0.3%.

Clearly, from the standpoint of its measurements, the Panasonic CQ-ID60 is a passably good unit, if not an outstanding one. But there are trade-offs here, ones that Technical Editor Ivan Berger will surely want to emphasize. The convenience of not having to fumble endlessly while driving from one region to another is a significant consideration. The ability to easily hook in a portable CD player via a front panel jack is also welcome. Panasonic is to be commended for jumping on the ID Logic bandwagon before anyone else. They recognized a need expressed by many car audio enthusiasts, and when the technology became available they were quick to take advantage of it. Leonard Feldman

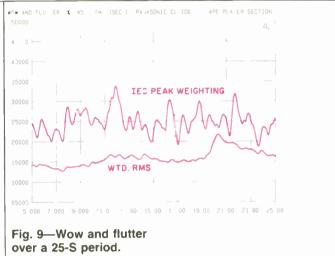
Behind The Wheel

The further you go from home, the more useful a feature like ID Logic should be. So I took the Panasonic as far afield from New York City as Hartford, Conn., in one direction, and Pittsburgh, Pa. in the other. Traversing station-packed Connecticut, the CQ-ID60 brought in something to my taste (classical, country and western, and jazz) everywhere I went. In central Pennsylvania, however, there were some places where the display said "No Statn" for my desired formats, and others where flickering call letters on the display showed "Not Find," meaning that it knew of stations that it should be able to receive, but couldn't.

Usually, though, it shows the call letters of a station. After that, pressing the "Disp" side of the little rocker cycles you through the station's frequency, location, and format, then the chief city of your currently logged location, then that city's state. (I'd have preferred getting the station's location first, so I'd know sooner if I was moving towards it or away from it.) Station information was almost always accurate, except in areas halfway between two stations on one frequency, when the display would usually vacillate between both sets of call letters before choosing one. Format information was a little chancier, since a "Jazz" station (for example) may not broadcast jazz all the time.

The cities for which each listener-location grid square are named are not centered in their squares, which can get a bit confusing: New Haven is not due south of Hartford, but those two grid squares stack that way. And though you can get some stations from the "New Haven" grid at the south end of the "Hartford" one, don't expect to pick up stations within New Haven from a spot in downtown Hartford.

If you press the "ID" rocker too long, you get into the "Data" demo mode, which displays all theoretically available stations in the local data base, receivable or not. When not in "Data" mode, the ID Logic system properly rejected



some stations that couldn't actually be heard, but stopped at others that yielded only noise puffs.

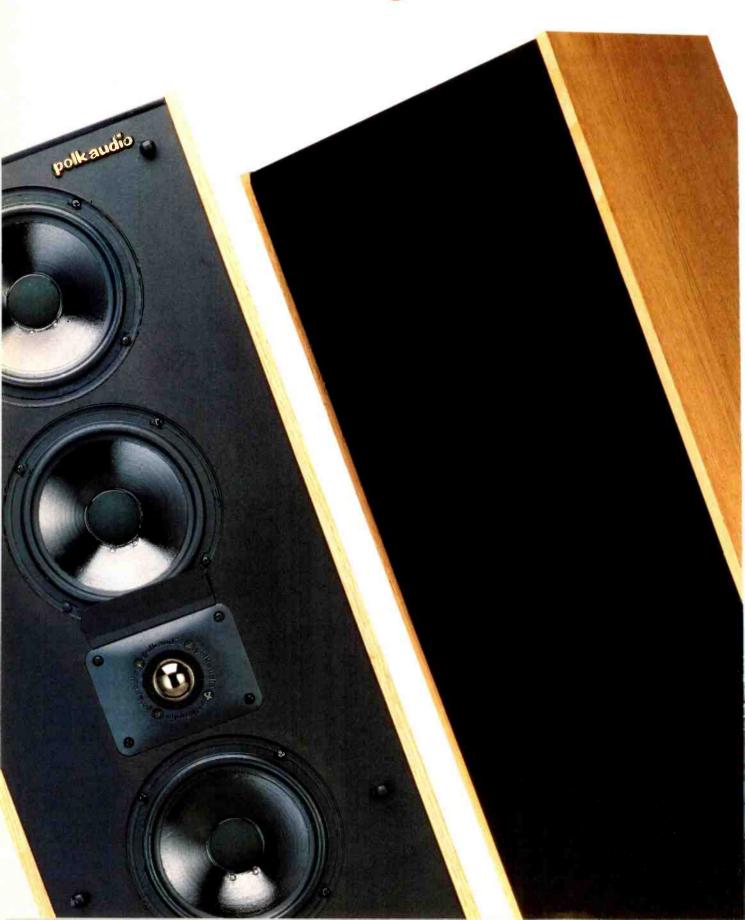
The Panasonic was not a match for my reference on distant stations, but proved equally adept at handling breakthrough interference (whether from stations on the same or adjacent frequencies, I couldn't tell). The FM Optimizer circuit's most audible effect was a welcome reduction in distortion. On AM, reception was about average—quite pleasant on some stations, full of noises on others.

The controls were nicely arranged, for the most part, with the "Audio" rocker and the preset/format and "Band" keys obviously designed by someone who knew that most car stereos are mounted parallel to the car floor, well below eye level. The display, however, had a row of small but important indicators (for Dolby NR, stereo reception, "Data" mode, "FMO," tape type, and "TPS") at the top, where they were hidden from the driver's view. The main display information, however, was quite easy to read, especially the bright "ID" indicator (vital, since most controls change their function in that mode) and the big letters and numbers for the "Audio" rocker's modes and settings, broadcast station info, "Tape" (with arrows pointing up or down, depending on which side of the tape is playing) and "CD" (when that input is activated). My one complaint was that it's too easy to turn the unit off or attenuate the sound when you're trying to raise the volume-slightly different button design would have prevented that.

Night illumination is good. With the unit off, only the power switch lights up, but as inserting a tape won't turn the unit on, there's no need to il'uminate the tape slot when the unit's off. With the unit on, all controls, the display, and the tape slot light up nicely, except for the big tape-transport buttons, which are easy to find anyway. While the green illumination matched that of my dash, I found that selecting amber illumination made the display easier to read by day.

The sound, as you'd suspect, was best when playing CDs through the front-panel input, next best on tape, okay on FM, and merely inoffensive on AM. I heard no evidence of wow and flutter, even on bumpy roads. *Ivan Berger*

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ALPINE	3900 D/A Converter 7980 In-Dash Changer/Tuner 59512 Changer/Controller/ FM Modulator 59575 Changer	1200.00 900.00 580.00 550.00	1	3 6	5-22 5-20 + 0,-1 5-20 ± 1 5-20	95 95 103	0.006 0.01 0.005	0	D/T D/T	Yes Yes	D O	16.3	80	65	24	Yes	Yes
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	5954 Controller 1390 Tuner	150.00 200.00						-		Yes		16.3	80	60	24	No	Yes
AUDIOVOX	CDC-700 Changer	699.00	1	10	5-20 ± 1	95	0.008	0	DT	Yes	D	-	-	<u> </u>	-	No	No
LAUPUNKT	CDC M1 Changer CDC M4 Changer	899.95 449.95	1	10 10	5-20 ± 1 5-2 ± 0.5	90 90	0.005		D T D T	Yes Yes	D T D T					Yes Yes	Yes Yes
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OUSTIC	CC-55 Changer	599.95	1	10	5-20 ± 0.5	90	0.008		DT	Yes	0					Yes	Yes
DENON	DCC-700 Changer DCC-500 Changer DCX-70 Controller DCX-60 FM Modulator	700.00 500.00 140.00 85.00	1	5 10	5.20 ± 1 5.20 ± 3	100 90	0.003 0.005		DT DT No	Yes Yes No	D D D					Yes No No	No No Yes
CLIPSE	ESD-430 Changer ESD-431 Changer/Wireless Remote/ FM Modulator ESD-530 Changer	500.00 750.00 900.00	1 1 1	12 12 12	5-20 5-20 5-20	92 92	0.01 0.01 .00007						-			No No Yes	No No
IVC	XL-MG1800 Changer XL-MG700RF Changer/Controller/ FM Modulator XL-MK500 Changer KS-RF1 Controller/FM Modulator KS-RF18 Controller KS-IF100 FM Modulator	729.95 639.95 479.95 179.95 259.95 99.95	3 1 1	6 6	5-20 5-20 5-20	98 98 98	0.004 0.004 0.004	50	DT		D						
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Photograph: Bill Ashe

AUDIO/MAY 1992

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PANASONIC	CX-DP60 Changer CY-RM60 Wireless Remote/Display Unit/FM Modulator CY-FM5 FM Modulator	499.00 179.00 79.00	1	6	5-20 ± 1		0.01		DT	Yes	D						Yes
	CX-DPFM60 Changer Wireless Re- mote/Display Unit/FM Modulator CX-DP15(RD) Changer CY-RM15 Controller (with amp) CY-RM16 Controller	620.00 599.00 299.00 249.00	1 2	6 6	5-20 ± 1 5-20 ± 1	96	0.01 0.005	35	D T D T/E	Yes Yes	D D						Yes Yes Yes
PIONEER	CY-RM5 Controller CDX-M33 Changer CDX-FM38(R), Changer/FM Modulator CDX-FM35 Changer/FM Modulator DEX-M400(RIC) Controller GEX-T0 Tuner	129.00 460.00 680.00 560.00 240.00	1 1 1 1	6 6 6	5-20 ± 1 5-20 ± 1 5-20 ± 1	94		512 512 512 512 512	D T/E D T E D T/E D T	Yes Yes Yes Yes						Yes No No	Yes Yes No No Yes
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SANYO	DCD-8000 Changer Controller MAX-7000 Changer	400.00	1	6				-	DT		D						
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SHERWOOD	XM-710 Changer XM-7800 Changer/Controller/ FM Modulator XM-7100 Changer/Controller	499.00 600.00	1	6 6	$5-20 \pm 0.5$ $5-20 \pm 0.5$ $5-20 \pm 0.5$	92 91	0.002	30 30) T/E) T/E	Yes Yes	D						Yes
SONY	CDX-A15 Changer CDX-A55 Changer CDX-A55 Changer CDX-A15RF Changer/Controller/ FM Modulator	650.00 450.00 450.00 560.00	1 1 1 1	6 10 10 10	5-20 ± 0.5 5-20 5-20 5-20	91 85 95 85	0.02 0.015 0.01 0.015	30 0	D T/E	Yes	D					No No No	Yes No No Yes
	CDX-ASSRF Changer Controller/ FM Modulator RM-X124 Controller RM-X2001 Preamp/Controller XT-30 Twner XT-100 Twner/Amp/Controller CDX-U300 Changer CDX-U300 Changer CDX-U300 Changer CDX-U300 Changer CDX-U300 R-Changer Controller/ FM Modulator RM-X14 Controller/FM Modulator	580.00 160.00 400.00 180.00 300.00 450.00 600.00 670.00 260.00	1 1 1 1	10 10 10 10	5-20 5-20 5-20 5-20 5-20	95 95 105 95	0.01 0.01 0.008 0.01	0 10 110 110 110 110	DT DT E DT DT DT/E DT/E	Yes Yes Yes Yes Yes Yes	0 D D D T D D	12 12	75 75	68 68	30 18	No No No No No No No	Yes Yes Yes No Yes Yes Yes Yes Yes Yes
SONY ES	XES-C1 Changer CDX-U480D Changer XES-P1 Preamp Controller XES-T1 Tuner	900.00 550.00 1300.00 250.00	1	10 10	3-20 5-20 30-15	105 105 70	0.003 0.005 0.3	110 110	D.T/E	Yes	D/T	8	75	70	20	Yes Only Yes	Yes Yes
SOUNDSTREAM	DC1000 Changer/Remote DTA1 D/A Converter	759.00 595.00	1	10	5-20 ± 1 5-20 ± 0.25	90 96	0.05 0.03				<u> </u>		13	70	30	No Yes	Yes Yes Yes
TARGA	Q-4000 Changer/Controller Q-6000 (see components below) CDC-5 Changer Q-735C Head Unit	400.00 699.00	1	6 10		_		16	D/T D/T/E	Yes Yes	D D T				30	Yes	
TECHNICS	CX-OP3000 Changer	979.00	1	12	5-20 ± 1	96	0.005		D/T	Yes	D		_				
TOSHIBA	TX-972FM Changer/Controller/ FM Modulator TX-972AU Changer/Controller	549.95 529.95	1 1	10 10	20-20 20-20	55 90	0.0002	160 160	D/T/E D/T/E	Yes Yes	D D					No	Vac
YAMAHA	YCDC-1000 Changer YCT-925 Controller/Tuner YFM-1 FM Modulator YCC-1 Remote YDSP-1 Controller/ Digital Sound-Field Processor	549.00 549.00 80.00 130.00 949.00	1	10	5-20	100			C T/E T	Yes	DT DT	15.0	75	70	24	No Yes No	Yes
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MANUFACTURER	Manual	and a second	Freeman Providence	10	The Range of	et all		ALL PROPERTY OF ALL	Repeat C	Auer Cillon, Eau	Auro Farl Sea	Far Lean Disc (D), T	Allow 20 Sample	E.	Ton S.M. Colocities	A demand of the second of the	Then Pro-	PCA IN DUCTOR
ALPINE	7803\$ 7802 7980 (3-Disc Changer) 7915 7914	550.00 460.00 900.00 520.00 480.00	5-20 + 0,-1 5-20 ± 1 5-20 + 0,-1 5-20 + 0,-1 5-20 + 0,-1 5-20 + 0,-1	95 93 95 95 95	0.006 0.01 0.006 0.006 0.006	D D D D D	0 0 0	No No No No	D/T D/T D/T D/T D/T	Yes Yes Yes Yes Yes	D D D/T D/T	16.3 16.3 16.3 16.3 16.3 16.3	80 80 80 80 80	60 60 65 60 60	24 24 24 24 24 24	30 Max. 30 Max.	R P P	Dut Rear Dut Dut Dut
AUDIOVOX	ACD 35	599.95	5-20	95	0.05	D	16	No	D T/E	Yes	D/T	13			30	25	P	Out
BLAUPUNKT	New York Aspen Denver Miami Orlando	799.95 479.95 449.95 449.95 419.95	20-20 ± 0.3 10-20 ± 1 10-20 ± 1 10-20 ± 1 10-20 ± 1 10-20 ± 1	90 90 90 90 90 90	0.005 0.002 0.002 0.002 0.002 0.002	D D D D D	16	No No No No No	0 T/E D/T D T D/T D/T	Yes Yes Yes Yes Yes Yes	D/T D/T D/T D/T D/T	13 12 12 12 12 12	85 75 75 75 75 75	75 70 70 70 70	36 24 24 24 24 24	10 x 4 10 x 4	P/S P P	Dut Yes Yes Yes Yes
CLARION	5870CD 5930CD 5632CD 5671CD 5730CD 5770CD	649.95 999.95 349.95 399.95 449.95 499.95	5-20 5-20 5-20 ± 0.1 5-20 ± 0.1 5-20 ± 0.1 5-20 ± 0.1 5-20 ± 0.1	93 95 93 93 93 93	1 1 1 1	D D D D D D	0 0 0 0	Yes Yes No No No	D/T/E D.T/E D/T/E D/T/E D/T/E D/T/E	Yes Yes Yes Yes Yes Yes Yes	D/T D/T D/T D/T D/T D/T	12 12 12 12 12 12 12	70 70 70 70 70 70 70		20 24 20 20 20 20	27 27 27 x 4 27 x 4	P P P	Dut Dut Yes Yes Yes Yes
COUSTIC	CD-303	549.95	4-20 ± 2	90	0.05	D	16	Yes	D/T/E	Yes	D/T	12	70	60	30	14 x 4	Р	Yes
CRAIG	AP902	599.95	5-20	90	.0001	D		No	D/T/E	Yes	D/T	15.9	70	60	18	25	Р	Yes
DENDN	DCC-9770(RIC) DCC-8770 DCC-8570	750.00 650.00 550.00	5-20 ±1 5-20 ±1 5-20 ±1	96 96 96	0.005 0.005 0.005	D D D		No Yes Yes	D/T D/T D/T	Yes Yes Yes	D/T D/T D/T	14.8 14.8 14.8	100 100 100	70 70 70	24 24 24	18	P P P	Dut Yes Yes
ECLIPSE	ECD-411(C) ECD-410 ECD-510	699.95 475.00 900.00	20-20 ± 3 20-20 ± 3 5-20	94 94	0.02 0.02 .00007	A A D	0 0 0	Yes No No	D/T T D/T	Yes Yes Yes	D/T D/T D/T	13.5 13.5 12.6			24 24 24	12 12	P P, Dpt.	Yes Yes
FULTRON	16-9700	300.00	20-20	85	0.2	A	0	No	T	Yes	D/T	12.0	25	60	18	25	Р	Yes
JENSEN	CD-9500	429.00	10-20						T	Yes	D/T	14			18	20	P	
JVC	XL-G3700(RI) XL-G2700(RI) XL-G2700(RI) KS-RX835 CD Cassette Receiver	399.95 379.95 319.95 799.95	5-20 5-20 5-20 5-20 5-20	90 90 90 95	0.015 0.015 0.015 0.015 0.005		15		D/T D'T D/T/E D/T/E		D D D/T D/T	15.3 15.3 15.3 12.1			24 24 24 24	8 8 3 x 2, 8 x 2	P	
KAWASAKI	KRCD 292	699.00	20-20 ± 0.5	90	0.05	D	16	No	D T/E	Yes	D/T	12	55	60	30	25	Р	Yes
KENWOOD	KDC-95R(RIC) KDC-85R(C) KDC-77R KDC-67R	599.00 549.00 479.00 429.00	5-20 ± 1 5-20 ± 1 5-20 ± 1 5-20 ± 1 5-20 ± 1	96 96 96 96	0.005 0.005 0.005 0.005 0.005	D D D D	20 20 0 0	No No No No	0/T D/T D/T D/T	Yes Yes Yes Yes		15.2@ 50 dB 15.2@ 50 dB 15.2@ 50 dB 15.2@ 50 dB	70 70 70 70	96 96 96 96	24 24 18 18	8 x 4 8 x 4	P/S P/S P	Out Out Dut Dut
KRACO	KCD-3000	849.95	5-20 ± 3	90	1.0	0		No	T	Yes	T	15	53	80	18	20	Ρ	Yes
L.A. SOUNO	LA 1100CD	449.00	5-25 ±0.09	90	0.02	D	0	in Out	DT	Yes	T			60	24	14 x 2, 8 x 4	Ρ	Yes
MOPAR	82400844	530.00	30-20 + 0,-2	100	0.15	D	0	No	D	No	D/T	30@ 50 dB	60	58	20	12 x 4		
NAKAMICHI	Mobile CD Tuner 1(RIC)	750.00	5-20 ±0.5	85	0.008	D	0	Yes		Yes	D	17		60	18		Р	Yes
OPTIMUS	12-1987 12-1941 (Under-Dash)	359.95 349.95	20-20 ±3 20-20	80	0.15 0.1	0 A	16 0	Yes	D/T/E	Yes Yes	D/T				18	18	P	Yes Yes
PANASONIC	CO-DP42 CO-DP38 CO-DP37 CO-DP32	569.00 529.00 499.00 429.00	5.20 ± 1 5.20 ± 1 5.20 ± 1 5.20 ± 1		0.008 0.008 0.008 0.008		12 12 12 12	Yes Yes Yes No	D/T D/T D/T D/T	Yes Yes Yes Yes	D/T D/T D/T D/T	13.2 13.2 13.2 13.2 13.2	75 75 75 75	70 70 70 70	24 24 24 24	27 x 4 22 x 4 17 x 4 22	P R P	Yes Yes Yes Yes
PHILIPS	DC911	599.00			0.009	D	12		0/T/E	Yes	DT				18	8 x 2, 25 x 2	P	Yes
PIONEER	DEH-M980(RIC) DEH-880(RI) DEH-880 DEH-680 OEH-580 GEH-M2000(C) FHM-75(RIC) CDX-4	680.00 600.00 510.00 480.00 410.00 280.00 1200.00 400.00	5-20 ± 1 5-20 ± 1 5-20 ± 1 5-20 ± 1 5-20 ± 1 5-20 ± 1 5-20 ± 1	90 90 90 90 90 90 90			512 512	No No No No No No	D/T D/T D/T D/T D/T D/T/E D/T D/T	Yes Yes Yes Yes Yes Yes Yes Yes	D/T D/T D/T D/T D/T D/T D/T D/T	8 8 11 11 11 11 8	70 70 76 70 70 70 70		24 24 24 24 24 24 24 24	30 x 4 30 x 4 30 30 30 25 x 2, 15 x 4 30 x 4	R R R R	Yes Yes Yes Yes Yes Yes
<u> </u>		400.00	A.F.A. T.I.								Ľ							

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IN-DASH CD PLAYERS

	And a second sec	indice CD CD	Transferrance		lenge ag	1 Miles	Contract, Samo Contract Contract	io. (0)	Popear , and a selection	crine En	Auche Fast So. Poplan Ist (D)	The Decar Dice (1), T	Sensitives (1)	100 - 001		TUNER	and the second sec	Red high and a second s
MANUFACTURER	100 B (C)	Price	Frequency, 5	1	THO CHANGE OF		And Concert	and an	Hender I	And Contract	Am.	The User	11 - 10	Carmale.C.	Tan Mono S	A MANUNAL AND	Then all all	ACA In Jan
PREMIER	DEX-M88(RIC) DEH-M77(RIC) DEH-M66(RIC)	900.00 700.00 540.00	5-20 ± 1 5-20 ± 1 5-20 ± 1	92 90 90		D D D	512 512 512 512	Yes No No	D/T/E D/T D T	Yes Yes Yes	D/T D/T D/T	7 8 11	70 70 70	70	24 24 24	30 x 4 30	R R R	Yes Yes Yes
PROFILE	CD210	450.00	20-22 ±0.5	90	0.02	D		No	01	Yes	DT		60	65	18	25	P	Dut
RADION	DCD-7000	599.00					16	Yes	т	Yes	DT				30	35	P	
SANYO	ECD8500	449.99	5-20 ± 3	90	0.05	D	16	No	DTE	Yes	DT	12	65	60	30	25 x 2. 20 x 4	Р	Yes
SENTREK	SCD 1000	499.95	20-20 ±5	95	0.05	D	0	No	D/T/E	Yes	DT	17	80	60	30	- 14	P	Yes
SHERWOOD	XCM-6820(C) XC-6810P XC-6520P XC-6420P	575.00 475.00 625.00 500.00	5-20 ± 9.5 5-20 ± 0.5 5-20 ± 1 5-20 ± 1	94 91 94 90	0.02 0.02 0.02 0.02 0.02	D D O O	8 8 9	Yes	D T/E D T/E D T/E D T/E D T/E	Yes Yes Yes Yes	0 D DT DT	11.2 11.2 11.2 11.2 11.2	80 80 80 80	70 70 70 70	30 18 24 30	25 x 4 25 25 x 4 25 x 2,	R/S P P P	Yes Yes Yes Yes
	XC-6320P	450.00	5-20 ±1	90	0.02	D		Yes	D/T/E	Yes	0/Т	11.2	80	70	24	8 x 4 25	Р	Yes
SONY	CDX-4040 CDX-5080 CDX-5180 CDX-U8000(C)	380.00 450.00 520.00 680.00	5-20 5-20 5-20 5-20	85 85 90 100	0.015 0.015 0.01 0.01 0.008	D D D D	0 0 0 0	Yes Yes Yes Yes	0 T 0 T 0 T 0/T	Yes Yes Yes Yes		12.0 12.0 12.0 12.0 12.0	75 75 75 75 75	68 68 68 68	24 24 24 30	10 11 10	P R R	Yes Yes Yes Yes
SPARKOMATIC	\$R600	399.99	20-20	85	0.05	D	20	No	T	Yes	0/T	17	60	60	18			Yes
TARGA	CDR-7 Q-2000	599.00 499.00					16 16	Yes Yes	T T	Yes Yes	O T D T				30 30	35 15 x 2, 35 x 2	P P	
TOSHIBA	TX-910 TX-902	609.95 419.95	5-20 ± 3 5-20 ± 3	90 90	0.05 0.05	D O	16	No No	D T/E D T/E	Yes Yes	D 0/т	10	50	60	18	25		Yes Yes
YAMAHA	YCOR-1020 YCDT-720	699.00 499.00	20-50 5-20	100 90	0.01 0.05	D D	20	Yes Yes	D T/E T	Yes Yes	D T D/T	20 15	75	70	30 30	35 x 4	P P	Yes Yes

DAT PLAYERS

MANUFACTUREF	Marine Contraction	Price S Contraction	Followy,	041, 7620016	The Assistance of the second s	Fillinging Construction Construction	All Analogo Contraction of the second	Alpenio and all (a)	Auril Colling Tan	Aur.	Connair, Paulice, Paulice, Souther, Sou	- SX	(B) Search (1) alance (B)	Di Scans	Futures - Action - Ac	cired. "Interior of	(M + Charles Charles		TUNE	R R R R R R R R R R R R R R R R R R R
AWA	HD-\$100(R1)	950.00	10-22 ± 1	90	0.009	D	Yes		Yes	Yes	٧	Yes	Yes	No		ſ	1	ſ	Р	Yes
CLARION	Audia 8100	2299.95	30-15	92	0.005	0	Yes	A B/C	No	Yes	V/8/F T	Yes	Yes	No	12	70	92	12	s	Yes
SHARP	RX-P1(RI)	1499.99	5-22	90	0.009	D	Yes	A B/C	Yes	Yes	٧	Yes	No	No			1		No	No
SONY	DTX-10	1199.95	5-22	90	0.01	D	Yes	A/B	Yes	Yes	V/B·F/T	Yes	Yes	No	12	75	70	24		Yes

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MANUFACTURER	<u> </u>		<u> </u>	\bigwedge	*/ **	<u>_</u> ~	3.0	<u> </u>	1 2 2	`/*	<u>_</u>		·/ &	8	<u> </u>
A/D/\$/	P\$ 5	240.00	A				40	10-40 ±1	0.05	P/S		No	Yes	71/8 x 13/4 x 51/8	Bridges to 90 watts; operates into
	P\$ 5.2		A			105	40	10-40 ±1	0.05	P			Yes	71/8 x 13/4 x 51/8	2 ohms. As above.
	PQ 8	195.00	A				20 x 4	10-40 ±1	0.3	P/\$		No	Yes	9 ³ /4 x 1 ⁷ /8 x 5 ⁷ /8	Includes RCA adaptor, Model AC 202; operates into 2 ohms.
	PQ 10 PQ 10.2	490.00	A			105	80 x 2†	10-40 ±1	0.05	P/S		No	Yes	11 ³ ⁄4 x 2 x 6 ¹ ⁄a	†Two-, three-, or four-channel operation. Operates into 2 ohms.
	PQ 20	790.00	Â			103	80 x 2† 200 x 2†	10-40 ±1 10-40	0.05	P P/S		No	Yes Yes	11 ¹ / ₄ x 2 x 6 ¹ / ₈ 14 x 2 ³ / ₈ x 8 ¹ / ₄	As above.
	PQ 20.2		A			110	200 x 2†	±1 10-40	0.05	P			Yes	14 1 278 1 874	As above. As above.
	PH 12	290.00	A				20 x 6	±1 10-40	0.03	P/S		No	No	9¾ x 1½ x 7¾	Operates into 2 ohms.
	PH 15	690.00	A				50 x 6††	±1 10-40	0.05	P/\$		No	No	14 x 2¾ x 8¼	t†Three-, four-, five-, or six-channel
	PH 15.2		A			105	50 x 6††	±1 10-40 ±1	0.05	Р			No	14¼ x 2¾ x 8¼	operation. As above, As above.
AIWA	MA-8500 MA-8400 MA-7400	425.00 350.00	A			98 98	60 x 3† 35 x 4	10-25 10-25	0.045	P P	No No	Yes No	Yes Yes	10½ x 2 x 12% 10½ x 2 x 10¼	†Three- or five-channel operation, Bridges to 60 watts x 2,
	MA-2500 MA-6250	300.00 99.00 150.00	A A AE	7	12	95 90	25 x 4 25	10-25	0.05	P P/S	No	No No	Yes Yes	10½ x 2 x 9½ 5½ x 1¼ x 5%	Bridges to 40 watts x 2.
ALPHASONIK	FA-100 FA-150	295.00	A	- ·	14	87 95	25 50	20-30 5-30	0.1	P/S . P	Yes No	No No	Yes Yes	7 ¹ / ₈ x 1 x 16 2 ¹ / ₂ x 8 ¹ / ₂ x 10 ¹ / ₄	Bridgeable.
	FA-200 PMA-2030i	395.00 495.00 165.00	AA			95 95 95	75 100 30	5-30 5-30 5-30	0.01 0.01 0.05	P	No No	No No	Yes	2 ¹ / ₂ x 8 ¹ / ₂ x 12 ¹ / ₄ 2 ¹ / ₂ x 8 ¹ / ₂ x 15	As above. As above.
	PMA-2050i PMA-2075i	199.00 249.00	Â			95 95 95	50 75	5-30	0.05	P/\$ P/\$ P/\$	No No No	No No No	Yes Yes Yes	21/8 x 71/8 x 57/8 21/8 x 71/8 x 71/2 21/8 x 71/8 x 10	As above. As above. As above.
	PMA-2100i PMA-2150i	349.00 449.00	A			95 95	100 150	5-30 5-30	0.01	P/\$ P/\$	No No	No No	Yes	21/a x 71/a x 13 21/a x 71/a x 141/a	As above. As above.
	PMA-4035i PAS-1100	299.00 295.00	A			95 90	70 x 2† 100 x 1	5-30 15-160	0.05	P/\$ P/\$	No No	No Yes	Yes Yes	21/a x 71/a x 12 2 x 63/a x 8	Two-, three-, or lour-channel operation. Mono subwoofer amp; high-pass line
	PAS-1060	190.00	A			90	60 x 1	Hz 15-150 Hz	0.05	P/S	No	Yes	Yes	2 x 55% x 6½	output. Mono subwooler amp,
	PQ-7 PS-7B P-2	150.00 230.00 300.00	E	7 7 5	18 18 18	95 95 100			0.02 0.02 0.01	P/S P/S P	Yes Yes Yes	No † No	Yes Yes Yes	7 x 1 x 5 7 x 1 x 4% 7 x 1 x 6	†Subwoofer crossover. Adjustable center frequencies.
ALPINE	3402 3339	500.00 420.00	P/E P/E	7 11	15 12	100 100				P P	No Yes	No Yes	Yes Yes	9 ¹ /2 x 1 ¹ /2 x 6 ³ /a t	True parametric; four-channel operation, †Control unit, 6¼ x 1½ x ¾; base unit,
	3331 3319 3217	260.00 140.00 140.00	P/E P/E P/A E	11 7 7	12 12 12	100 95 90	25			P P/S P/S	Yes Yes Yes	Yes No No	Yes Yes	7 x 1 x 5½ 7 x 1 x 5½	7 x 1 x 5%. Includes spectrum analyzer. Adjustable crossover frequency.
	3566	660.00	A			105	t	20-20	0.08	P	I GE	Yes	Yes Yes	7 x 1 x 5 ⁷ /a 10 ³ /a x 2 ¹ /4 x 13 ³ /a	Fader works on preamp and speaker outputs. †Three-, four-, five-, or six-channel
	3558	1200.00	A			110				P					operation; six-channel mode, 30 watts x 4 and 60 watts x 2.
	3555	500.00	Â			105	30 x 4† 150 x 2†	20-20	0.08	ltt		No Yes	Yes	9½ x 2½ x 15¾ 10¾ x 2¼ x 11½	†Two-, three-, or four-channel operation. Class A.
									0.00			Tua		1078 4 2 74 4 1178	tAs above. ttPreamp-level input included; speaker-level input available with Model 4311 adaptor (\$25.00). Operates into 2 ohms.
	3553 3549	390.00 580.00	A			105 110	100 x 2† 100	20-20 20-20	0.08 0.08	Ħ		No Yes		10¾ x 2¼ x 10⅔ 10¾ x 2¼ x 11¾	tAs above. Operates into 2 ohms. Bridges to 300 watts; operates into 2 ohms.
	3548 3547 3544	300.00 250.00 750.00	Å			106	60 40	20-20	0.08	Ħ		Yes Yes		9½ x 7½ x 2 9½ x 6¼ x 2	As above but 160 watts. As above but 120 watts.
	3543 3542	750.00 550.00 280.00	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			110 110 105	150 100 60	20-20 20-20 20-20	0.08 0.08 0.08	P P P		No	Yes Yes	11 ⁷ /a x 2 ¹ /a x 10 ¹ /4 11 ⁷ /a x 2 ¹ /a x 10 ¹ /4	As above but 400 watts, As above but 300 watts.
	3541 3531	230.00 160.00	A A			105 92	40 18 x 4	20-20 20-20 20-20	0.08	P P/S		No No No	Yes Yes Yes	8% x 2 x 7 8% x 2 x 6¼ 4¾ x 1% x 5%	As above but 160 watts. As above but 100 watts. Operates into 2 ohms.
	3522 3513	160.00 130.00	A			100	30 25	20-20 20-20	0.08 0.08	P P		No No	Yes	81/4 x 17/8 x 51/8 77/8 x 11/2 x 51/8	As above; bridges to 80 watts. Bridgeable; operates into 2 ohms.
	3503 3362	100.00 1200.00	T T	t		92	18	20-20	0.8	P/S P	Yes	No Yes	Yes Yes	43/4 x 11/2 x 31/8	Operates into 2 ohms. †Digital ambience processor with nine
	3617	520.00	t			95				Р	Yes	No	Yes	7 x 2 x 5½	front and nine rear digital EQ bands. Optical digital input.
ALTEC LANSING	ALA 552 ALC 11	300.00 150.00	AE	3	12	110	50	10-30	0.08	P/S	No	No	Yes	3 ¹ /2 x 3 x 10 ³ /4	†Digital ambience processor. Bridgeable,
	ALC 15 ALC 20	350.00 650.00	Ē	3 5	12 12 12	100 100			0.008 0.008 0.003	P/S P P	No Yes Yes	Yes Yes Yes	Yes Yes Yes	2 ³ / ₄ x 7 x 3 ¹ / ₈ 3 ¹ / ₄ x 8 ³ / ₈ x 8 2 ¹ / ₂ x 8 ⁷ / ₈ x 14 ⁷ / ₈	Optional under-dash control unit, Model
ANABA AUDID	PA100	214.99	A			97	50	20-20	0.03	P		-+	Yes		ALC 20C, \$375.00. Bridgeable.
	PA200	279.99	A			100	100	±1 20-20 ±1	0.03	Р			Yes		As above.
	PA300	334.99	A			100	150	20-20 ± 1	0.03	Ρ			Yes		As above.
	PA400	444.99	A			101	200	20-20 ±1	0.03	P			Yes		As above.
	PA450 PA4100	299.99 459.99	A A			97 100	50 x 4† 100 x 4†	20-20 ±1 20-20	0.03	P P			Yes		†Two-, three-, or four-channel operation.
 ^		-43.33	^			100	100 X 41	±1	0.03	r			Yes		

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from the



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MANUFACTURER	the original states of the sta	Buice				*/**	a a a a a a a a a a a a a a a a a a a		/2	ž /				The second second	Moles
AUDIO	Dispersion	139.95	<u>р</u>	\leftarrow	<u> </u>	(/	<u> </u>		T	1	Ť	1-	1	f
CONNECTION	Module	133.33	[r						0.004	P	No	1	Yes	10½ x 1¼ x 1	†Optional external crossover filter modules. Eight outputs.
AUDIOCONTROL	EQL Series II	249.00	P/E	13	12	112		1	0.005	P/S	No	No	Yes	1¼ x 6½ x 8½	Level-matching preamp; seven-band bass EQ with half-octave spacing, six-band
	EQX Series II	349.00	PE	13	12	112			0.005	P/\$	No	+	Yes	1¼ x 6½ x 8½	octave EQ for mids and highs. As above, tProgrammable crossover with
	EQQ	349.00	PE	12	12	110			0.005	P/S	No	No	Yes	21⁄4 x 63⁄4 x 91⁄2	Linkwitz-Riley alignment. Level-matching preamp; independent EQ
	EQT	299.00	P/E	30	12	110			0.005	P/S	No	No	Yes	2¼ x 6¾ x 9½	on four channels. Mono; level-matching preamp; ½-octave EQ spacing; constant Q.
	ESP-2	189.00	E	3	Var.	110			0.05	P	No	No	Yes	1¼ x 4½ x 5½	Spatial restoration processor; includes dash-mountable remote control.
	ESP-3	299.00	E	3	Var.	110			0.05	P	No	Yes	Yes	1¼ x 5½ x 7	Proprietary center-channel processor with spatial restoration; high-pass on center
	The Epicenter	189.00	E	1	15	110			0.005	P	No	No	Yes	1½ x 5 x 6	output; includes remote control. Proprietary bass restoration circuit;
	System 90/ Model 20	549.00	A			100	70	10-50	0.09	P/\$	No	t	Yes	121/2 x 61/2 x 21/2	includes dash-mountable remote control. Includes the Epicenter. †Programmable crossover.
	System 90/ Model 40	649.00	A			100	40 x 4	10-50	0.05	P/\$	No	1	Yes	121/2 x 61/2 x 21/2	Includes the Epicenter. †Two programmable crossovers.
AUDIOLINK	Powerdriver PO-2	129.95	P			85		-	0.01	P/\$	No	t	Yes	⁷ /8 x 3 ⁷ /8 x 2 ¹ /2	†Optional.
AUDIOVOX	EQ3 AMP-520	109.95 59.99	P/E A	3	12	80 85	20	30-40	0.01	P	No	No	Yes	4 x 2 ¹ /2 x 2	For use with model above.
	AMP-530 AMP-540	89.99 149.99	Â			85 85 90	20 25 50 35	30-40 30-40 30-40	10 10 10	P/S P/S P/S	No No No	NO NO NO	Yes Yes Yes	4 x 1¾ x 6¼ 7½ x 2¾ x 7½ 7½ x 2¾ x 8¾	
	AMP-580 AMP-581	175.00 220.00	Â			90	60	10-40	0.1	P/S P/S	No	Yes	Yes	8% x 2 x 8 12% x 2 x 8	Bridgeable. As above.
	AMP-582 AMP-583 AMP-760	300.00 350.00	A			90	120 60 x 4	10-40	0.1 0.1	P/S P/S	No No	Yes	Yes Yes	16% x 2 x 8 16% x 2 x 8	As above. As above.
	AMP-777 AMP-785	70.00 150.00 125.00	A/E A/E A/E	7 7 7	12 12 12	80 80 80	15 18 x 4 18	50-20 20-30 20-30	10 10 10	5 5 5	Yes	No	No No	6½ x 1 x 4 6½ x 1½ x 6	CD input.
AUTOTEK	7040BTS	199.95	A	1	12	105	18	20-30	0.05	P	Yes No	No No	No Yes	61/4 x 13/4 x 51/2 71/2 x 13/4 x 41/4	Bridgeable; operates into 2 ohms; 18-dB
	7050BTS	299.95	A	2		105	22	20-20	0.015	P	No	No	Yes	8 ¹ /4 x 2 ¹ /2 x 4 ³ /4	boost at 45 Hz; two-way preamp bypass switch.
									0.010	ľ			108	074 A 272 A 474	Bridgeable; operates into 2 ohms; 18-dB boost at 45 Hz and 12-dB boost at 16 kHz; three-way preamp/EQ bypass switch.
	71008TS 71508TS 73008TS	399.95 549.95 799.95	Â	2		105	50 75	20-20 20-20	0.015	P P	No No	No No	Yes Yes	8 ¹ ⁄ ₄ x 2 ¹ ⁄ ₂ x 6 ¹ ⁄ ₂ 8 ¹ ⁄ ₄ x 2 ¹ ⁄ ₂ x 8 ¹ ⁄ ₄	As above. As above.
	7600BTS 7054BTS	1099.95 569.95	A A A	2		105 105 105	150 300 22 x 4	20-20 20-20 20-20	0.015 0.015 0.015	P P P	No No No	No No No	Yes	8¼ x 2½ x 14 8¼ x 2½ x 19	As above. As above.
	7204BTS 7050XX	759.95 369.95	Â	222222222222222222222222222222222222222		105 105 105 105	50 x 4 22	20-20 20-20 20-20	0.015	P	No No	Yes No	Yes Yes Yes	8 ¹ / ₄ x 2 ¹ / ₂ x 8 ³ / ₄ 8 ¹ / ₄ x 2 ¹ / ₂ x 11 ³ / ₄ 8 ¹ / ₄ x 2 ¹ / ₂ x 6 ¹ / ₂	As above. As above. As above but operates into 1 ohm.
	7100XX 9050BTS	469.95 499.95	A	22		105 90	50 22	20-20 20-20	0.015	P	No No	No	Yes	81/4 x 21/2 x 81/4 81/4 x 21/2 x 81/4 81/4 x 21/2 x 61/2	As above but operates into 1 onm. As above. Bridgeable; operates into 0.5-ohm load:
	9100BTS	899.95				-	-								18-dB boost at 45 Hz and 12-dB boost at 16 kHz.
	70058 7005	349.95 399.95	A E E	2 15 15		90 100 100	50	20-20	0.04	P	No	No No	Yes	8 ¹ ⁄ ₄ x 2 ¹ ⁄ ₂ x 8 ³ ⁄ ₄ 13 x 1 ¹ ⁄ ₂ x 5 ¹ ⁄ ₂	As above. Trunk-mount.
	7006 7004	599.95 279.95	Ē	31	12 12	101 90			0.04	P P P	No	No	Yes Yes Yes	13 x 1½ x 5½ 1½ x 8 x 12½ 1 x 7½ x 4	As above. As above. Half-DIN size.
BLADE TECHNOLDGIES	VTR 100	2999.00	A			95	50	20-20 ±1	0.5	P	Yes	No	Yes	15 ³ /4 x 8 ¹ /2 x 8	Tube design: Class A. switchable to
	SE Mono	499.00	A			90	200 x 1	3-20 ± 0.5	0.07	Р	Yes	No	Yes	5¼ x 6¾ x 1¾	Class AB1; operates into 2 ohms. Monoblock; two summing inputs; operates into 2 ohms; MOS-FET.
	SE4.2	899.00	A			90	200 x 2	3-20 ± 0.5	0.07	P	Yes	No	Yes	9% x 6% x 1%	Operates into 2 ohms; MOS-FET.
	SE6.3 SE8.4	1299.00 1699.00	A A			90 90	200 x 3 200 x 4	3-20 ±0.5 3-20	0.07 0.07	P P	Yes	No	Yes	14½ x 6% x 1%	As above.
	SE10.5	1999.00	Â			90	200 x 4	3-20 ±0.5 3-20	0.07	P P	Yes	No No	Yes Yes	19 x 6 ⁷ /s x 1 ³ /s 23 ⁵ /s x 6 ⁷ /s x 1 ³ /s	As above. As above.
	\$E12.6	2499.00	A			90	200 x 6	±0.5 3-20		P	Yes	No	Yes	28 x 6% x 1%	As above.
	SE C50	499.00	A			90	50 x 1	±0.5 3-20	0.07	P	Yes	No	Yes	51⁄4 x 67⁄8 x 1 3 ⁄8	Monoblock; operates into 1 ohm;
	SE C100	899.00	A			90	50 x 2	±0.5 3-20 ±0.5	0.07	P	Yes	No	Yes	9% x 6% x 1%	MOS-FET. Operates into 1 ohm; MDS-FET.
	SE C200	1699.00	A			90	50 x 4	3-20 ± 0.5		P	Yes	No	Yes	19 x 6½ x 1¾	As above.
	SE C250	1999.00	A			90	50 x 5	3-20 ±0.5		P	Yes	No	Yes	23% x 6% x 1%	As above.
	504 CX	799.00	•			105	50 x 4†	3-20 ± 0.5	0.02	Ρ	Yes	Yes	Yes	13 x 5½ x 2%	†Two-, three-, or four-channel operation. Simultaneous stereo and bridged mono output; triamp capable; Class A; operates into 2 ohms; MOS-FET.
	502		A			150	50	3-20 ±0.5	0.02	P	Yes	No	Yes		mu 2 Ullila, MUƏ-FEI.
BLAUPUNKT (Continued)	BMA5350B	699.95	^			110	t	5-100	0.05	Ρ		π	Yes	12 x 12½ x 2	†Three-channel mode, 100 watts x 2 and 150 watts x 1; five-channel, 50 watts x 4 and 150 watts x 1. ††Separate front, rear,
															and subwoofer crossovers.

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MANUFACTURER	Hoose	S. S. S.	And a state of the	Nume (P) Amp (A)	Boner of ED Bands	SA Realinge		Full-Port 0 100 4 (THO AT Bandwich, H.	CIA 490 Output		Inclusion of the second	PCA :	Climmicon, Inc.	Moles
BLAUPUNKT (Centineed)	BQX300 BMA200	429.95 329.95	A .			95 90	100 x 2† †	10-65 ††	0.1 0.1	P/S P/S		Yes Yes	Yes Yes	9½ x 3 x 12 6½ x 3 x 12	†Two-, three-, or four-channel operation. †Five-channel mode, 25 watts x 4 and 50 watts x 1, ††20 to 80 Hz for subwoofer channel, 150 Hz to 50 kHz for satellite channels.
	BSX150 BQA120 BSA60 BEQ08E BEQ65A BEA120	299.95 129.95 99.95 349.95 229.95 149.95	A A E E A/E	957	12 12 12	90 90 90 80 80 80	50 30 x 4 18 25 x 4	10-65 10-50 10-50 20-20	0.1 0.1 0.05 0.03 0.03	P/S P/S P/S P/S P/S	No Yes Yes Yes	Yes No No Yes No No	Yes Yes Yes Yes Yes Yes	6 ⁷ /a x 3 x 12 4 ³ /4 x 6 x 15/a 4 ³ /4 x 6 x 15/a 7 x 1 x 5 ¹ /a 2 ¹ /a x 6 ³ /a x ⁷ /a 7 x 1 ³ /a x 5 ⁷ /a	Four EQ presets. Mounted on flexible stalk.
CANTON	M 50	200.00	A			94	50 x 1	20-20	0.1	P/S		Yes		6¾ x 3¼ x 154:	Mono amp module for Model MF 3 or MF 5 Mainframe. Model MF 3, holds three amp modules, 11% x 6% x % inches, \$150.00; Model MF 5, holds five modules, 18% x 6% x % inches, \$200.00.
	S 30	150.00	A			94	15	20-20	0.1	P/S		Yes		6¾ x 3¼ x 1¾	Stereo amp module, fits Mainframes as above.
CARVER	PMA-4075	499.95 449.95	A A			100	50 x 4	20-20	0.2 0.2	P P/S	Yes	Yes Yes	Yes	13¾ x 7¾ x 3¾	Simultaneous stereo and bridged mono output for each pair of channels, with low-pass filtering on bridged output; 9-dB boost at 45 Hz. Simultaneous stereo and bridged mono
	PMA-2100 PMA-2062 PMA-2022	349.95 259.95 99.95	A A A	2		100 100 100	75 40 22	20-20 20-20 20-20	0.2 0.5 0.5	P/S P/S P/S	Yes Yes	Yes No No	Yes Yes Yes	11½ x 7¾ x 3¾ 6¼ x 5 x 2½	output, with low-pass filtering on bridged output; 9-dB boost at 45 Hz. As above, Bridgeable,
CLARION	SX-2/3 100E087 703E0A 704E0A 52E0 72E0 72E0 72E0 72E0 05P959 201A 402A 601A 1001A 1601A 1610A 3200A	499.95 99.95 149.95 199.95 99.95 299.00 499.95 899.95 79.95 189.95 189.95 249.95 329.95 499.95 799.95	t A/E E E E E E E E A A A A A A A A A A A	5 7 5 7 7 7 9	12 12 12 12 12 12 12 12 12 12	90 90 92 92 90 95 85 85 100 94 94 100 103 105	25 25 25 x 4 25 x 4 25 x 4 50 80 130 40 x 4 80 x 4	20-20 20-20 20-20 10-60 10-60 10-60 10-60	0.1 1 1 1 1 0.08 0.08 0.08 0.08 0.08 0.1 0.1	P S P/S P/S P P P/S P P P P P P P P P	Yes Yes Yes Yes Yes Yes Yes No No No No	Yes Yes Yes Yes Yes	Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	$\begin{array}{c} 12^{1/4} \times 6^{3/4} \times 2^{1/4} \\ 7^{1/6} \times 1 \times 5^{1/6} \\ 7 \times $	†Sonic Holography spatial processor. †Digital signal processor. Bridgeable.
COMPETITION	C-500 C-1000 C-2000 C-4000 C-1004 C-2004	349.00 500.00 679.00 425.00	A A A A A	1 1 1	+ 18 + 18 + 18	100 100 100 100 100 100	25 50 100 200 25 50	20-20 15-30 15-30 15-30 20-20 20-20 20-20	0.01 0.01 0.01 0.01 0.01 0.01 0.01	P/S P/S P/S P/S P/S P/S	No No No No No	No No No No No	Yes Yes Yes Yes Yes Yes	9 x 2.6 x 10 9 x 2.6 x 12 9 x 2.6 x 14 9 x 2.6 x 14 9 x 2.6 x 12 9 x 2.6 x 14	Parametric bass boost. As above. As above.
COUSTIC	AMP-660	660.00	A			95	50 x 6†	10-50	0.05	P P/S	No No	No No	Yes Yes	25½ x 8½ x 2¾ 16¼ x 8½ x 2¾	†Three-, four-, five-, or six-channel operation. Simultaneous stereo and bridged mono
	AMP-460 AMP-360 AMP-260 AMP-160 AMP-268 AMP-108	359.95 289.95 219.95 139.95 419.95 139.95				95 92 92 70 92 90	98 65 45 30 100 x 2†† 16 x 4	10-55 10-50 10-50 10-30 10-30 15-25	0.05 0.05 0.05 0.05 0.05 0.09	P/S P/S P/S P/S P/S	No No No No	No No No Yes No	Yes Yes Yes Yes Yes	13 x 8 ⁷ /s x 2 ³ /s 9 x 8 ⁷ /s x 2 ³ /s 7 ¹ / ₂ x 8 ⁷ /s x 2 ³ /s 8 ⁷ /s x 2 ³ /s x 16 ⁷ /s 5 ⁵ /s x 1 ³ /a x 9 ¹ /a	As above. As above. As above. As above. As above. Throw, three-, or four-channel operation. 6- or 12-0B boost at 45 Hz and 15 kHz; front and rear inputs can be paralleled.
	AMP-102 AMP-560 EQ-1100 EQ-1001	69.95 1550.00 179.95 114.95		777	12 12	90 92 90 90	16 250 x 4††	15-25 10-50	0.09 0.05 0.05 0.05	P/S P P P/S	No No Yes Yes	Na Na Yes Yes	Yes Yes Yes Yes	5% x 1¾ x 6¼ 38 x 12 x 3¾ 7 x 6 x 1 7 x 6 x 1	
CRAIG	MA2300 MA2160 MA2080 ME101 ME105	230.00 150.00 90.00 50.00 70.00	A A A/E A/E	7	12 12	90 80 60	70 35 16 15 18	20-20 20-20 20-20 20-20 20-20 20-20	0.2 0.5 1.0	P/S P/S P/S S S	Yes	Yes	Yes Yes Yes	8 ¹ / ₂ x 2 ¹ / ₂ x 9 6 ¹ / ₂ x 2 ¹ / ₂ x 9 4 x 2 ¹ / ₂ x 9 5 ⁷ / ₈ x 1 ¹ / ₈ x 4 ³ / ₄ 5 ⁷ / ₈ x 1 ¹ / ₈ x 4 ⁵ / ₄	Bridgeable; operates into 2 ohms. As above.
CRUNCH	50 50HC	299.00	A			90 95	25 25	20-20 10-32	0.015	P P	No No	No No	Yes Yes		Accepts filter, crossover, or EQ module; includes eight-gauge power cables. As above; bridges to 450 watts into 1 ohm.
	100 150 250 400 600 425 450 M60	425.00 550.00 1250.00 499.00 650.00	A A A A A A A t	3		95 97 97 98 102 93 95	50 75 125 200 300 25 x 4 50 x 4	10-32 10-32 10-32 10-32 10-32 20-20 10-32	0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015	P P P P P P P P P P P P P	No No No No No No	No No No No No No No	Yes Yes Yes Yes Yes Yes Yes No		Accepts filter, crossover, or EQ module; includes eight-gauge power cables. As above. As above. As above. As above. As above. As above. Tequalizer/noise-gate module.
CRUTCHFIELD	CR2X30P CR2X50P CR4X30P CR4X50P	149.00 219.00 229.00 299.00	A			102 102 102 102	30 50 30 x 4† 50 x 4†	10-50 10-50 10-50 10-50	0.02 0.02 0.02 0.02 0.02	P P P	Yes	No No No No	Yes Yes Yes Yes	7½ x 1½ x 5½ 7½ x 1½ x 8½ 7½ x 1½ x 1½ x 8½ 7½ x 1½ x 12% 7½ x 1½ x 13¼	Bridgeable. As above. †Two-, three-, or four-channel operation.

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MANUFACTURER	Model	Price	and a second		Ban	2 × 3	Mathe	Full.	ONI			100. 100.	BC.	Oime	Holes
DENON	DCA-800 DCA-600	600.00 450.00	A	1	+ 16	100	40 x 6†	20-20	0.05	P	No	tt	Yes	14½ x 2¾ x 11	†Three-, four-, five-, or six-channel operation. ††Subwoofer crossover.
	DCA-500 DCA-400 DCA-3150	300.00 200.00 150.00	Â	1	+ 16 + 16 + 16	100 100 95 90	40 x 4† 40 30 12 x 4	20-20 20-20 20-20 20-20 20-20	0.05	P P P	No No No	No No No	Yes Yes Yes	97/a x 21/a x 125/a 97/a x 21/a x 77/a 97/a x 21/a x 65/a	†Two-, three-, or four-channel operation. Bridgeable. As above.
	DCA-3120 DCE-2190 CAMI	80.00 220.00 270.00	A E E	9	12 12	90 97	12	20-20	0.5 0.5 0.005	P	No No Yes	No No Yes	Yes Yes Yes	91/4 x 13/4 x 6 47/8 x 13/8 x 35/8 7 x 1 x 53/8	Selectable crossover frequency.
	DCE-250 CAMI DCL-420	160.00	P	t	12	95 95			0.008 0.008	P P/\$	No	No t	tt Yes	8½ x 1½ x 4 8½ x 1½ x 5½	†12 front EQ bands, 12 rear. ††Supplied by modules below. Four-channel controller; auto source
	CAMI DCL-410	100.00	Р			95			0.008	P/\$	No	1	Yes	8½ x 1% x 5%	switch. †Dptional. Four-channel controller. †Optional.
EARTHQUAKE	PA-2300 PA-2150	899.00 749.00	A			110 105	300 150	10-32 10-32	0.015	P P	No No	No No	Yes Yes	2 ³ / ₄ x 9 x 16 2 ³ / ₄ x 9 x 13	Bridgeable; operates into 2 ohms; 18-dB bass boost and 12-dB treble boost. As above,
	PA-2075 PA-2050 PA-2030	549.00 489.00 330.00	A A A			99 97 94	75 50 30	10-32 10-32 10-32	0.015	P P	No No No	No No No	Yes Yes	23/4 x 9 x 13 23/4 x 9 x 11 23/4 x 9 x 11 23/4 x 9 x 5	As above. As above.
	PA-2020 PA-4300 PA-4030	325.00 1499.00 549.00	Â A			90 110 94	20 300 x 4 30 x 4	10-32 10-32 10-32 10-32	0.015	P P P	No No	No No	Yes Yes Yes	2 ³ / ₄ x 9 x 6 2 ³ / ₄ x 9 x 33	As above. As above. As above.
	PA-4050C PA-4020C	729.00 559.00	A A			97 90	50 x 4 20 x 4	10-32 10-32	0.015 0.015	P P	No No No	No Yes Yes	Yes Yes Yes	2 ³ / ₄ x 9 x 11 2 ³ / ₄ x 9 x 11 2 ³ / ₄ x 9 x 11	As above. As above. As above.
ECLIPSE	EUM-2420 EUM-2410 EUM-2204	499.95 399.95 99.95	A A A			105 103 84	50 x 4† 25 x 4† 11	20-20 20-20 20-20	0.03 0.03 0.1	P P P			Yes Yes Yes	13¾ x 2¾ x 10 13¾ x 2¾ x 10 5½ x 1¾ x 2	†Two-, three-, or four-channel operation.
	EQS-1000 EQS-1001	799.95 649.95	11 11			90 90			0.08	P P	Yes	Yes Yes	Yes	7 x 2 x 61/s 73/s x 15/s x 61/4	ttDigital sound processor with ambient center-channel output. Mounts in trunk or under seat; controlled
															by Model EQZ-301 (see "Radios"), ECD- 411 (see "CD Players"), or EQR-1100 (\$199.95),
EXXESS Electronixx	EX-420 EX-240 EX-260-4	102.00 67.85 41.50	A A A			89 89 85	210 120 65 x 4	20-20 20-20 20-20	0.05 0.05 0.05	P/S P/S P/S	No No No	Yes Yes	Yes Yes		Bridgeable. As above,
	EX-260-2 AMP + 400-2 AMP + 400-4	36.00 52.00 67.85	Â A A			85 85 85 85	130 200 100 x 4	20-20 20-20 20-20 20-20	0.05	P/S P/S P/S	No No No		Yes Yes Yes Yes		
FAS	PE75S PE60	125.00 114.95	P/E P/E	777	12 12					P/S P/S	Yes Yes	Yes No	Yes	7 x 1 x 5 ¹ /2 7 x 1 x 5 ¹ /2	
	PA200 PA140 PA425	329.00 279.00 99.95	A A A				160 110 25 x 4	5-30 5-30 20-20	0.05 0.05 1	Р Р Р/\$	No No No	No No No	Yes Yes Yes	12 ¹ /2 x 8 ³ /4 x 2 8 ³ /4 x 8 ³ /4 x 2 6 ¹ /2 x 1 ¹ /2 x 4 ¹ /2	Front and rear gain controls.
FULTRON	PA25 16-0150M 16-0100M	69.95 449.95 349.95	A A A			95 05	25 150 100	20-20 20-30	1	P/\$ P	No	No No	Yes Yes	51/2 x 11/2 x 41/2 133/4 x 2 x 71/2	Bridgeable; operates into 2 ohms.
	16-0075M 16-0050M 16-0025M	279.95 229.95 199.95	A A A			95 95 95 95 85 85	75 50	20-30 20-30 20-30	0.05 0.05 0.05	P P P		No No No	Yes Yes Yes	11 ³ / ₄ x 2 x 7 ¹ / ₂ 10 x 2 x 7 ¹ / ₂ 7 x 2 x 7 ¹ / ₂	As above. As above. As above.
	16-0425M 15-0050	299.95 199.95	A A			95 95 85	25 25 x 4 50	20-30 20-30 10-50	0.05 0.05 0.08	P P P/S	No	No No	Yes Yes Yes	7 x 2 x 7½ 8 x 2 x 7½ 9½ x 1¾ x 9½	As above. As above. Bridgeable.
	15-0450 15-0425 15-0225	299.95 99.95 55.95	A A A	_		75 69	50 x 4 25 x 4 25	10-50 10-50 10-50	0.08 0.05 1	P/S P/S P/S	No No No		Yes Yes Yes	11¼ x 1¾ x 9½ 7½ x 2¼ x 5% 4 x 1½ x 4¾	As above.
	15-0740 15-0730	189.95 79.95	A-E	7 10	12 12	75 65	20 x 4 13 x 4	20-35 20-20	0.05 1	P/S P/S	Yes Yes	Yes No	Yes Yes	1 x 6 ¹ /s x 7 1 x 4 ¹ /2 x 7	Programmable; includes spectrum analyzer.
G & S DESIGNS	16-0737 PA-4X	199.95 399.99	E P E	4	18 18	110 95			0.005	P P	Yes Yes	Yes No	Yes Yes	1 x 7 x 35/8	Parametric. Parametric EQ.
HAFLER	MSE-100tn Trans-Nova	399.00	A			100	50	20-20	0.05	P/S			Yes	2 x 9½ x 8¾	Bridges to 170 watts; MOS-FET.
	MSE-200tn Trans-Nova MA4	549.00 499.00	A			100 100	100 150 x 2†	20·20 20-20	0.05 0.05	P/S	No	No	Yes Yes	2 x 14 x 8 ³ /4 12 x 9 x 3 ¹ /2	As above but bridges to 370 watts.
	M\$E40	199.00	A			110	20	20-20	0.05	P	No	No	Yes	85% x 5 x 21/4	†Two-, three-, or four-channel operation. MOS-FET. Bridges to 75 watts; MOS-FET.
	M\$E80 M\$E120 M\$E-460	299.00 349.00 369.00	A A P/E	3	12	110 110	20 x 4 20 x 6	20-20 20-20	0.05 0.05	P P P/S	No No t	No No	Yes Yes Yes	85% x 8 x 2¼ 85% x 11¼ x 2¼	As above but bridges to 75 watts x 2. As above but bridges to 75 watts x 3. †Faded and nonfaded outputs. CD and
	MAQ104	349.00	E	10	12	90					No	No	Yes	10 x 8 x 1¾	tape inputs. Four-channel operation; octave spacing; turn-on delay.
HARMAN KARDON	TC600	1300.00	A			100	300	10-100	0.1	P/S	No	No	Yes	16% x 12% x 31/4	Simultaneous stereo and bridged mono output.
	TC4000 TC300	1000.00 800.00	A A			100 100	100 x 4† 100	10-100 10-100	0.1 0.1	P/S P/S	No No	No No	Yes Yes	165% x 12½ x 3¼ 14% x 12½ x 3¼	Two-, three-, or four-channel operation. Simultaneous stereo and 300-watt bridge
	CA1400	499.00	A			100	35 x 4†	10-100	0.1	P/\$	No	No	Yes	125% x 93% x 21/4	mono output. Simultaneous stereo and bridged mono output.
	CA70 CA600 CA30	329.00 319.00 159.00	A A A			100 100 100	35 15 x 4 15	10-100 10-100 10-100	0.1 0.1 0.1	P/S P/S P/S	No No No	No No Mo	Yes Yes Yes	105% x 63/4 x 21/4 125% x 63/4 x 2 71/4 x 63/4 x 2	As above.
		103,00	2			100	10	10-100	0.1	F/ð	110	m0	1.42	174 X 074 X Z	
						_									

Chronicle

Since 1976, Coustic has consistently created and manufactured some of the highest quality equipment on the car audio market.

From its introduction in 1978, the memorable RX-3000 has drawn incredible consumer demand. In the early eighties, the unforgettable EQ-8370 maintained strong popularity for an amazing stretch of seven years. Then, of course, there was the AMP-500/300 power amplifier series with its superb sonic reproduction capability.

The HZ Shaper[™] (U.S. Pat. D302,556 & D302,695) speaker series was invented to solve inherent acoustic problems created within the automobile interior, while the highly successful RX-500 radio series achieved legendary status. Continuing in Coustic's tradition of quality and innovation...



AMP-380/190 Automotive Power Amplifier

Since its introduction in 1985, the AMP-380/190 has become an industry classic. It is the first amplifier ever designed to utilize HEXFET* components in its Pulse Width Modulated (PWM) power supply.



EQ-1030 Real-Time Analyzer/ Pre-Amp/Active Crossover

Selected as "one of the most innovative consumer products of 1986" at the Innovations '86 Design & **Engineering Exhibition** event held at the 1986 International Summer Consumer Electronic Show, The EQ-1030, a programmable 7-band EQ designed with pink noise generator, microphone and detachable electronic crossover, is the first and only product of its kind ever to be created for the automotive environment.



XM-3 Mobile Electronic Crossover (U.S.Pat. #4,905,284)

The most popular and widely imitated electronic crossover ever created, the trend-setting XM-3 is well recognized in the industry for its unique features.

"The XM-3 is an installer's dream come true... but the real beauty lies in the crossover's ability to be configured for practically any amplifier/speaker system you can think of... it's a very useful product and a tremendous value."

Michael Smolen User's Evaluation, CAR STEREO REVIEW Summer 1988

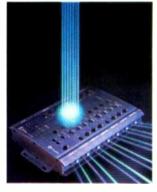


AMP-460 Power Logic Component Amplifier

The first of Coustic's *Power Logic* Component automotive power amplifier line, the AMP-460 was honored as *"one of the most innovative consumer products of 1990"* at the **Innovations '90 Design & Engineering Exhibition**.

"It offers an excellent design, quality construction, reliable operation, and great sonics while avoiding the distraction of useless bells and whistles... in short, this is a very cost-effective but still hi-fi amplifier."

Ken C.Pohlmann Test Reports, CAR STEREO REVIEW May/June 1990



XM-7 Multi-Function Mobile Electronic Crossover (Patent Pending)

The "reference standard" for electronic crossover design technology, the XM-7 was recognized as another "one of the most innovative consumer products of 1990" at the **Innovations '90** event.

RTA-33 30-Band One-Third Octave Real Time Analyzer. (Patent Pending)

The world's smallest, most powerful and amazingly accurate Real Time Analyzer, the RTA-33, earned Coustic yet another honor as *"one of the most innovative consumer products of 1991"* at the **Innovations '91**. Utilizing DSP technology, the RTA-33 represents a major breakthrough in precision instrumentation.

"The 33 is an excellent RTA. In terms of design, Coustic's engineers have stepped up to the plate and hit a home run. No other RTA offers this combination of small size, versatility, special features, precision, and price... The RTA-33 simply rewrites the rules." Ken C.Pohlmann User's Evaluation, CAR STEREO REVIEW Jan/Feb 1992



RX-739 Car Radio/Cassette

An evolutionary improvement, Coustic's new 1992 series of full-featured Car Radio/Cassette Players is a fusion of technological ingenuity, functionality and dynamic ergonomics.



DA-55 Dual Single-Bit Digital to Analog Processor with 18-Bit Resolution

Designed and handcrafted in the United States, DA-55 represents the debut of Coustic's new premiere **Design Reference** series. Coustic again sets the standard for design excellence.

At Coustic, creative imagination combined with serious dedication is a tradition.



4260 Charter Street Vernon, CA 90058-2596 USA Phone: 213-582-2832 Fax: 213-582-4328

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MANUFACTURER	, and the second	area area		Y (d) dues	aumber o	Sa Cur Asinge	Wallo Cha	Full Charles	NO THE	Por El		And Contraction of the second se	Selection of the select	Cland And And	holes
HIFONICS	Cupid VIII	195.00	A			98	22	20-20	0.05	P	No	No	Yes	1 ⁷ /8 x 7 ¹ /2 x 5 ¹ /8	Bridgeable; MOS-FET; accepts up to 13-V
	Pluto VIII Vulcan VIII Odin VIII Thor VIII Boltar VIII Zeus VIII Colossus VIII Juno VIII	260.00 345.00 420.00 560.00 725.00 870.00 1800.00 300.00	A A A A A			107 110 112 114 116 118 116 98	35 50 75 125 200 300 600 22 x 4	20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	PPPPPPPPPPPPP	No No No No No No	No No No No No No	Yes Yes Yes Yes Yes Yes Yes Yes	2½ x 8¾ x 6⅓ 2½ x 8¾ x 6⅓ 2½ x 8¾ x 6⅓ 2½ x 8¾ x 7¾ 2½ x 8¾ x 11⅓ 2½ x 8¾ x 15½ 2½ x 8¾ x 26½	signais. As above but accepts up to 9-V signals. As above. As above. As above. As above. As above. Bridgeable: MOS-FET; accepts up to 13-V
	Jupiter VIII Europa VIII	360.00 450.00				107 107	35 x 4 35 x 4	20-20 20-20	0.02	P	No	No Yes	Yes		signals. As above but accepts up to 9-V signals. As above; crossover variable from 50 Hz
	Gemini VIII Olympus VIII Aphrodite VIII	625.00 870.00 975.00	A	6		109 114 98	50 x 4 110 x 4 50 x 6	20-20 20-20 20-20	0.02 0.02 0.02	P P P	No No No	Yes Yes t	Yes Yes Yes	2½ x 8¾ x 11¾	to 5 kHz. As above. As above. 1 Three-way crossover, variable from 45 Hz to 5 kHz. Bridgeable; MOS-FET;
	Cyclops VIII Hercules VIII	365.00 520.00				113		20-20	0.02	P	No	Yes	Yes	2½ x 8¾ x 6½	accepts up to 9-V signals. Monoblock; crossover variable from 43 to 550 Hz; MOS-FET; accepts up to 9-V signals.
	Atlas VIII Ulysses VIII	740.00 550.00				116 119 106	25	20-20 20-20 20-20	0.02 0.02 0.02	P P P	No No No	Yes Yes No	Yes Yes Yes	2 ¹ / ₂ x 8 ³ / ₄ x 11 ³ / ₈ 2 ¹ / ₂ x 8 ³ / ₄ x 17 ³ / ₈ 2 ¹ / ₂ x 8 ³ / ₄ x 11 ³ / ₈	As above. As above. Bridgeable; MOS-FET; accepts up to 9-V
	isis VIII Eros VIII Titan VIII Cleo VIII	900.00 360.00 440.00 110.00	A A E	3	12	110 107 110 103	50 35 50	20-20 20-20 20-20	0.02 0.02 0.02 0.02	P P P	No No No	No No No No	Yes Yes Yes Yes	2 ¹ / ₂ x 8 ³ / ₄ x 17 ³ / ₈ 2 ¹ / ₂ x 8 ³ / ₄ x 6 ¹ / ₈ 2 ¹ / ₂ x 8 ³ / ₄ x 7 ³ / ₄ 1 x 7 x 3 ¹ / ₂	signals; operates into 0.5-ohm load. As above. As above but operates into 1 ohm. As above. Quasi-parametric; variable center frequencies; separate left and right EQ controls; with Cupid VIII amp, \$260.00; with Pluto VIII, \$345.00, with Odio VIII,
	Plato VIII	210.00	E	10	12	103			0.02	P	No	No	Yes	1 x 8¾ x 47⁄a	\$489.00. Quasi-parametric; variable center frequencies; separate left and right EQ controls.
HOLLYWOOD	Epsilon VIII RS-A50E	230.00	P/E	4	12	103 97	25	20-20	0.02	P P	Yes No	No No	Yes Yes	1 x 73/8 x 41/8	Half-DIN size; backlit.
SOUNO LABS	RS-A25E HSL-A100X HSL-A50X	391.00 393.00 299.00	Â			93 92	12.5 50	20-20 20-20	0.009 0.05	P P/S	No No	No Yes	Yes Yes		18-dB bass and treble boost; operates into 1 ohm. As above. 12-dB bass and treble boost; operates into 2 ohms.
THE HOTT SET-UP	HS2.125	629.00	A A	-		85 100	25 125	20-20 10-30	0.05	P/8	No No	Yes No	Yes Yes	14 x 8½ x 2¼	As above Bridgeable,
	HS2.75 HS2.50 T25.4 T25.2 T50.2	519.00 359.00 369.00 239.00 299.00	A A A A			100 100 100 100 100	75 .50 25 x 4 25 50	10-30 10-30 10-30 10-30 10-30	0.03 0.03 0.03 0.03 0.03 0.03	P P P P	No No No	No No No No	Yes Yes Yes Yes Yes	12 x 8 ¹ / ₂ x 2 ¹ / ₄ 10 x 8 ¹ / ₂ x 2 ¹ / ₄ 11 ¹ / ₄ x 6 ¹ / ₄ x 2 7 ¹ / ₂ x 6 ¹ / ₄ x 2 9 ¹ / ₂ x 6 ¹ / ₄ x 2	As above. As above. As above. As above. As above.
IMPACT	AX-100	229.95	A	1	+ 12	90	50 x 1	15-500 Hz	0.05	P/S	No	t	Yes	21/4 x 71/2 x 7	Mono subwoofer amp; operates into 2 ohms. †Low-pass filter, adjustable
JBL	AX-160	299.95	A	1	+ 12	90	80 x 1	15-500 Hz	0.05	P/S	No	t	Yes	2¼ x 7½ x 8	from 50 to 500 Hz. As above, †Mono low-pass and storeo high-pass filters, adjustable from 50 to 500 Hz.
JDL	GTQ400	549.00				100	200 x 2†	10-40	0.05	P	No	Yes	Yes	17½ x 8½ x 2¾	†Two-, three-, or four-channel operation. Simultaneous stereo and bridged mono output; biamp capable.
	GTQ200 GTQ100 GTS150 GTS50	399.00 179.00 289.00 119.00	A			100 95 100 95	100 x 2† 18 x 4 50 18	10-40 10-35 10-30 10-35	0.05 0.5 0.05 0.5	P P/S P P/8	No No No	Yes Yes No No	Yes Yes Yes Yes	14½ x 8% x 2% 11½ x 4¼ x 2% 11½ x 8% x 2% 8½ x 4¼ x 2%	As above. Biamp capable. Bridges to 150 watts; simultaneous stereo and bridged mono output.
JENSEN	A220 A320 A432 A4320	199.95 299.95 329.95 330.00	A A A A			85 85 85 85	50 75 100 x 2† 125 x 2†		0.5 0.5 0.5 0.5	S S P/S		No No No No	Yes Yes Yes Yes	7 ³ / ₄ x 2 x 7 ³ / ₄ 7 ³ / ₄ x 2 x 7 ³ / ₄ 7 ³ / ₄ x 2 x 9 ³ / ₄ 7 ³ / ₄ x 2 x 15 ⁵ / ₈ 16 ³ / ₄ x 2 ³ / ₈ x 9 ³ / ₈	Bridgeable. As above. †Two-, three-, or four-channel operation. Simultaneous stereo and bridged mono
	A43288E	380.00	A			85	125 x 2†		0.5	P/S		No	Yes	16¾ x 2¾ x 9¾	output; operates into 2 ohms. Includes BBE harmonic-restoration processing; operates into 2 ohms.
JVC	A82 A84 EQA78 EQA111 EQA77 EQA110	70.00 130.00 109.00 139.00 137.95 137.95	A A/E A/E P/E P/E	7 10 7 10	12 12 12 12 12	85 85 85 85 85 85	18 18 x 4 18 x 4 18 x 4 18 x 4		1 1 0.5 0.5	P/S P/S P/S P/8	Yes Yes	No No No Yes Yes	Yes Yes Yes Yes	5% x 13% x 5% 5% x 13% x 5% 5% x 1 x 5% 5 x 1 x 5% 7 x 1 x 5% 5 x 1% x 5% 7 x 1% x 5% 7 x 1% x 5%	processing: operates into 2 onms. Floating ground. As above. Malf-DIN size; Illumination. As above.
	KS-A51 KS-A102 KS-A202 KS-AG112 KS-AG214	99.95 179.95 349.95 279.95 499.95	~ ~ ~			90 90 90 100	12 30 60 45 40 x 4t	40-20 40-20 40-30 20-20 20-20	0.8 0.08 0.04 0.04 0.04	P/8 P P P			Yes	1 ¹ / ₄ x 6 x 3 ¹ / ₄ 1 ⁵ / ₈ x 9 x 5 ³ / ₄ 2 x 10 ⁷ / ₈ x 7 2 ¹ / ₄ x 11 ⁷ / ₈ x 5 ⁵ / ₈ 2 ¹ / ₄ x 11 ⁷ / ₈ x 10 ³ / ₄	Bridgeable. As above. As above; operates into 2 ohms; MOS-FET. Atus these or femaneses into 2 ohms;
(Continued)	KS-AG404 KS-EA200 KS-EA400 KS-E35	549.95 179.95 229.95 149.95	A AE AE E	7 7 7	12 12 12	90 90 90 90	60 x 4† 12 12 x 4	20-20 40-20 40-20	0.04 0.8 0.8 0.03	P P P P	Yes Yes Yes			2 ¹ ⁄ ₄ x 11 ⁷ ⁄ ₈ x 10 ³ ⁄ ₄ 2 ¹ ⁄ ₄ x 11 ⁷ ⁄ ₈ x 12 ¹ ⁄ ₄ 1 x 7 ¹ ⁄ ₈ x 6 1 x 7 ¹ ⁄ ₈ x 6 1 x 7 ¹ ⁄ ₈ x 6	Two-, three-, or four-channel operation, Operates into 2 ohms; MOS-FET; low-pass filter, TAs above. Low- and high-pass filters. Illumination. As above. As above.

Digital Access

Since the advent of CD technology, the Car Audio Industry has experienced a steady demand to improve digital sound reproduction. And now, presenting Coustic's latest family of digital products — brilliantly designed to take advantage of current technology while keeping options open for the future.

Because D/A Conversion is the most critical element of the digital audio system, Coustic has created the DA-55, an advanced Digital to Analog Processor especially for the car audio environment. Designed and handcrafted in the United States, the DA-55's introduction represents the debut of Coustic's new premiere Design Reference series. Now, car audio enthusiasts can really hear what they have been missing.

Set's excellent phase response results in superior sound imaging.

Multiple digital formats such as CD, DAT, and the emerging DCC technologies are all compatible with the DA-55. The three digital inputs (two coaxial and one optical), as well as sampling frequency are automatically selected by a special Auto Input Sensing Circuit (AISC).

Coustic's DA-55 features Class A, all discrete, Optimized Transient Response (OTR) analog output circuitry with *true balanced outputs* for sonic excellence, and low impedance outputs to drive lengthy cable with very little distortion. Totally separate power supply and ground plane between the digital and analog sections minimizes crosstalk and low-level digital noise.



The DA-55 utilizes a U.S. made Dual Single-Bit Chip Set design with 18-Bit Resolution, which incorporates a Dual 8 Times Oversampling Digital Filter, a 64 Times Oversampling Fifth Order Delta-Sigma Modulator, as well as an Ultralinear Digital to Analog Filter Set (a Fourth Order Butterworth Switched-Capacitor Filter with multiple feedback loops followed by a Second Order Butterworth Analog Filter). The Filter

Mil-Spec double-sided glass epoxy printed circuit board, Cardas internal wiring, WIMA or Roederstein capacitors, Gold-plated RCA connectors, and a custom CNC machined, all-aluminum chassis are some of the other highquality components included in the DA-55 construction.

Coustic's dedicated commitment to quality assures that the DA-55 will set the excellence standard for accuracy and performance.



Open Access CD Changer

To compliment the DA-55's debut, Coustic announces the CC-55 10-Disc Dual Single-Bit CD Changer with 8 Times Oversampling Digital Filter. Featuring a digital output with SPDIF format, the CC-55 gives your system open access to any future developments in the world of digital technology.

Complete with Remote Control, the CC-55 lets you choose advanced features like Shuffle Play, Intro Scan, Repeat Disc, Repeat Track, Track Skip, Music Search and much more without touching a single disc or taking your eyes off the road. You can even connect two changers together via the separately available Dual Changer Interface and play 20 discs through the same remote.

Not only is it easy to use, the CC-55 can be simple to install. With an optional RF Modulator, the CC-55's audio output connects to any existing audio system through the car's antenna loop. Or the CC-55 can connect directly to your existing system through an auxiliary input offering greater dynamic range.

A specially engineered, Oil-Damped, Anti-Skip Free-Float Suspension system maintains unsurpassed disc tracking accuracy, whether the CC-55 is mounted vertically or horizontally even on the roughest roads. A Ground Isolator is included to eliminate noisy hum or ground loop whine. The CC-55 includes everything you will need in one complete package!

FM/AM CD Player with Great Features

For in-dash application, Coustic introduces the latest CD-303 High Power FM/AM CD Player offering loads of great features. An Auxiliary Input lets you directly connect Coustic's CC-55 or any remote operated CD changer, or play your portable cassette player.



Coustic's Optimizer V circuitry provides FM reception comparable to the audio quality of the CD player itself! The CD-303 features Low Vibration Anti-Skip Floating Suspension which provides perfect disc tracking even on rough rides.

Bi-Level Fader Control lets you simultaneously adjust the relative level of front/rear pre-amp and speaker outputs. Features like Intro Scan, Shuffle Play, Repeat Track, Auto Station Memories, Preset Scan and much more are all standard.

Front panel illumination is switchable to either green or amber. The Pull-out Chassis provides security and portability. The Coustic CD-303 is one of the most complete, full-featured CD Players available.

Engineered for the sophisticated audio enthusiast, Coustic's family of digital products are designed with options to access the future.



4260 Charter Street Vernon, CA 90058-2596, USA Phone: 213-582-2832 Fax: 213-582-4328

RK-65-90 299.55 F 9 172 90 72 90 72 90 72 90 72 90 72 90 72 90 72 90 72 90 72 90 72 90 72 70 <th70< th=""> 70 70</th70<>										01				7		
ALMUTATURER		/	/			noi, Equaliter (E)	.	^c of ^{L.Wei} thied	o e Olime		? /	* /	r (8)			
APC (Editabase) R4.87.7 (Scientified) 249.45 E T 12 12 12 12 12 12 12 12 13 15	MANUFACTURER	Moder	Price .	o de la	id) an	nber of EQ B _a	S.W.D. Handle	Valle Channello	Euli-Poor In	THO at P.	man Ela 490 04	Constants	here Company	PC.	C (nput Jacks)	
Continuend) XX-515100 200.00 P 0 <td></td> <td><u>/</u></td> <td>(</td> <td><u> </u></td> <td>_</td> <td></td> <td></td> <td></td> <td>/</td> <td></td> <td><u> </u></td> <td>Í –</td> <td>-</td> <td></td> <td>í</td> <td></td>		<u>/</u>	(<u> </u>	_				/		<u> </u>	Í –	-		í	
KS-DP100 399.35 1 I <	(Continued)										1					As above.
R.S. OF 100 SPS. 35 T F										0.00	1				2 4 7 /8 4 0 /8	patterns; includes spectrum analyzer;
Additional Actional Actio		KS-DP100	599.95	t			85			0.02	P				tt	tDigital signal processor with four preset and four programmable sound fields; five- step digital bass control. ttHide-away unit, 2 x 67% x 5; controller, 2 x 67% x 17%. Selectable subwoofer cutoff, 80 or
KEC-4022 249.00 A 5 10	KAWASAKI				_			25 x 4	20-20	0.08	<u> </u>		Yes	Yes	7 x 2 x 6	
REG. 4862 Pic 1	KENWOOD										P		† Yes			Parametric EQ; includes spectrum
Add. 2-23 (Add. 2-22 (Add. 2-22 (Add. 2-22 South A (Add. 2-22<		KGC-4032	199.00	AE			100		2-100	0.3	P/S	Yes		Yes	7 x 1 x 61/a	Simultaneous stereo and bridged mono
AKE-722 298 00 A F No PS No No Ter Ter <thter< th=""> <thter< th=""> Ter</thter<></thter<>		KAC-823	399.00	A			105	70	2-100 2-100	0.3	P/S P/S	No No			10¾ x 2¼ x 9⅓ 10¾ x 2¼ x 8¾	As above.
ARC-842 193.00 A Image: Constraints and bidged means and bidged mean									2-70	0.5	P/S	No	No	Yes	10¾ x 2¼ x 6¾	As above. †Two-, three-, or four-channel operation.
KAC-322 79.00 A Image: state of the												No	No	Yes	8¾ x 1½ x 7¾	Simultaneous stereo and bridged mono
RESEARCH XMA-150-U 2000 0 A F		KAC-322	79.00	Α						0.8 1	P/S P/S					
KMP-186-U 500.00 1 v 90 Value 0.71 P Yes No 2 ± 14 0 ± 10 P = 2 ± 10 P = 10 ± 10	KINERGETICS RESEARCH			_					1			1				input.
KEC-4 MAZAR SOUND 66 365 KK-2553 KK-2553 KK-2553 S0 305 KA A E F F S 5 12 S0 S0 12 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0								5U X 4	20-200	0.05	P					†Balanced preamp with D/A converter
LARZAR SOUND ZE010 TOPS BS P/E 10 12 00 TOP Mot Yes Hys	KRACO	KEC-4 KA-2525 KA-5050	69.95 99.95 154.95	A Ē A A		12 12	65 65 75	15 12 30	20-20 20-30 20-30	10 0.5 0.5	S P/S P/S	Yes No No	No No No	No Yes Yes	4 x 4½ x 1¼ 7 x 6½ x 2 8 x 8 x 8	
L.A. SDUND Ventura 2008T 349.00 A 2 12 50 12 10	LANZAR SDUND	L2E050 L250S L2100S L2160S L2160S L2180SM L2240S L2260S L2400S L2600S L2600S LXR90 LXR180 LXR180 LXR180 LXR180	339.95 299.95 399.95 549.95 699.95 759.95 749.95 1099.95 180.00 290.00 290.00 425.00	P/Ē A A A A A A A A A A A A A A A A		12 18	102 89 95 94 97 101 102 92 92 100 100	50 80 180 x 1 60 x 4 125 200 300 25 25 x 4 50 100	20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.01 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.018 0.018 0.01 0.01	P P P P P P P P P P	Yes No No No No No No No No No No	No No Yes Yes No No No No No No	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	$\begin{array}{c}1 x 7 x 4\\2 y_2 x 9 x 5^{3} 4\\2 y_2 x 9 x 7 y_2\\2 y_2 x 9 x 7 y_2\\2 y_2 x 9 x 8^{3} 4\\2 y_2 x 9 x 8^{3} 4\\2 y_2 x 9 x 12 y_8\\2 y_2 x 9 x 12 y_8\\2 y_2 x 9 x 16\\2 y_2 x 9 x 16\\2 y_2 x 8 x 16\\2 x 8 x 12\\2 x 8 x 14\\2 x 8 x 18\end{array}$	Hait-DIN size. Bridgeable. As above. Monoblock. Bridgeable; biamp capable. Bridgeable; bass boost. As above. As above. Bridgeable. Simultaneous stereo and bridged mono
Laguna 190 299.00 A B 6 75 r 2, 20 r 2 9-50 0.05 P/S Yes Yes 2 ³ / ₂ x 9 ³ / ₂ x 14 ⁴ / ₄ Controls: operates into 2 ohms. Bridgesble: operates into 2 ohms. Hermosa 150 249.00 A B 75 r 2, 20 r 2 9-50 0.05 P/S No Yes 2 ³ / ₄ x 9 ³ / ₄ x 1 ⁴ / ₄ As above. As above. Operates into 2 ohms. Redocado 2 189.00 A B B 0.025 P/S No Yes 2 ³ / ₄ x 9 ³ / ₄ x 1 ⁴ / ₄ As above. As above. Pris 1005 As above. As above. Pris 1005 As above. Pris 1002 As above	L.A. SDUND				2	12					<u>+</u>	+	+ +			Bridgeable: separate front and rear tone
Hermosa 150 Mailbu 10 199.00 LP 1005 249.00 139.00 139.00 LP 1005 A bit 100 189.00 129.00 LP 1005 A bit 100 199.00 129.00 LP 1005 A bit 100 109.00 129.00 LP 1005 A bit 100 109.00 129.00 LP 1005 B bit 100 109.00 129.00 LP 1005 B bit 100 109.00 129.00 LP 1005 B bit 109.00 100 129.00 LP 1005 B bit 109.00 100 100 129.00 B bit 109.00 100.05 A bit 100.00 100.05 A bit 100.00 A bit 20.00.00		Laguna 190	299.00	A			86		9-50	0.05	1					controls; operates into 2 ohms.
LE 25 69.00 A E 7 12 80 25 x 4 20.20 1.0 P/S Yes No Yes Bridgeable. LAZER LA2030 249.00 A 100 25 20.20 0.05 P/S Yes 8/4 x 1/9 x 10 As above. LA2050 139.00 A 100 50 20.20 0.05 P/S Yes 8/4 x 1/9 x 10 As above. As above. LA4050 439.00 A 100 50 20.20 0.05 P/S Yes 8/4 x 1/9 x 10 As above. As above. LA202 249.00 A 100 20 20.20 0.05 P No Yes 8/2 x 16 Bridgeable: operates into 2 ohms. LA202 249.00 A 100 20 20-20 0.02 P No Yes 8 x 2 x 4 Simultaneous stereo and bridgeatinge on on output: operates into 2 ohms. LA203 299.00 A 100 20 x 3 20-20 0.02		Malibu 100 Redondo 80 Zuma 40 LP 1205 LP 1005 LE P512	189.00 139.00 89.00 109.00 59.00 119.00	A A A A P/E	5		88 80 80 80 80 80 100	75 50 20 x 4 20 60	9-50 10-20 10-20 15-20	0.025 0.09 0.09 1.0 1.0 0.05	P/S P/S P/S P/S P/S P/S		Yes No No	Yes Yes Yes Yes Yes Yes	2¾ x 9¼ x 9½ 2¾ x 9½ x 6½ 2¾ x 9½ x 3½ Haif DIN	As above. Operates into 2 ohms. As above. Bridgeable. Dual source inputs.
LAZER LA2025 219.00 A A 100 25 20-20 100 100 100 100 100 100 100 100 100 100 20-20 0.05 P/S Yes Yes 8/4 1/9 100 A A 100 30 20-20 0.05 P/S Yes Yes 8/4 1/9 100 As above. LA4050 439.00 A 1000 50 20-20 0.05 P/S Yes Yes 8/4 1/9 X10 As above. As above. <td></td> <td>1</td> <td>129.00</td> <td>A/E</td> <td>7</td> <td>12</td> <td>80</td> <td>]</td> <td></td> <td>1.0</td> <td>P/S</td> <td>Yes</td> <td>No</td> <td>Yes</td> <td>mait UIN</td> <td>Bridges to 65 watts x 2; includes spectrum analyzer.</td>		1	129.00	A/E	7	12	80]		1.0	P/S	Yes	No	Yes	mait UIN	Bridges to 65 watts x 2; includes spectrum analyzer.
LA2030 249.00 A 100 30 20.20 0.05 P/S Yes 8/a x 1/a x 10 As above. LA2050 319.00 A 100 50 20.20 0.05 P/S Yes 8/a x 1/a x 10 As above. LA2050 LA2050 1100.00 A 100 50 x 4 20.20 0.05 P Yes 8/a x 1/a x 10 As above. LA202 249.00 A 100 20 20.20 0.02 P No Yes 8 x 2 x 16 Bridges to 800 watts into 0.5-ohm load; MOS-FET. LA203 299.00 A 100 20 x 3 20-20 0.02 P No Yes 8 x 2 x 7 Bridges to 800 watts into 0.5-ohm load; MOS-FET. LA203 299.00 A 100 20 x 3 20-20 0.02 P No Yes 8 x 2 x 7 Two-, three-, four-, five-, or six-channel optration. Optrates into 2 ohms. LA204 369.00 A 110 75 20-20 0.05 P No No Yes 8 x 2 x 16 Optrates into 2 ohms. LA752 <td>LAZER</td> <td>LA2025</td> <td>219.00</td> <td>A</td> <td>/</td> <td>12</td> <td>100</td> <td>25</td> <td>20-20</td> <td>0.05</td> <td>P/S</td> <td>Yes</td> <td>\rightarrow</td> <td></td> <td>8¼ x 1½ x 10</td> <td></td>	LAZER	LA2025	219.00	A	/	12	100	25	20-20	0.05	P/S	Yes	$ \rightarrow $		8¼ x 1½ x 10	
LA203 LA204 299.00 289.00 LA204 A 100 A 20 x 3 100 20 x 3 20 x 4† 20-20 20 z 0 0.02 0.02 P No No No Yes 8 x 2 x 7 Themesource and management output operates into 2 ohms. LA203 LA204 299.00 A A 100 20 x 3 20 x 4† 20-20 0.02 P No No Yes 8 x 2 x 7 tTwo-, three-, four-, five-, or six-channel operation. Operates into 2 ohms. LINEAR POWER The Runt 65210 99.95 (429.95) A 16 40-20 0.75 P/S No No Yes 8 x 2 x 76 tTwo-, three-, four-, five-, or six-channel operates into 2 ohms. LINEAR POWER The Runt 99.95 A 16 40-20 0.75 P/S No No Yes 13/a x 4 x 4½ yes 13/a x 4 x 4½ 55210 299.95 A 122 20-20 0.05 P/S No No Yes 2 x 74 x 5½ yes x 4 x 4½ yes 2 x 74 x 5½ 2 x 74 x 5½ yes x 4 x 4½ yes 2 x 74 x 5½ 2 x 74 x 5½		LA2030 LA2050 LA4050 LA252 HCD	249.00 319.00 439.00 1100.00	A A A	5		100 100 100 110	30 50 50 x 4 25	20-20 20-20 20-20 20-20 20-20	0.05 0.05 0.05 0.05	P/S P/S P P		Yes Yes Yes No	Yes Yes Yes Yes	8 ¹ /4 x 17⁄a x 10 8 ¹ /4 x 17⁄a x 11 8 ¹ /4 x 17⁄a x 11 8 ¹ /4 x 17⁄a x 17 8 x 2 x 16	As above. As above. As above. Bridges to 800 watts into 0.5-ohm load; MOS-FET.
LA204 369.00 A 100 20 x 4t 20.20 0.02 P No No Yes 8 x 2 x 7 tTwo-, three-, four-, four-, four-, or six-channel operates into 2 ohms. LINEAR POWER The Runt 99.95 A 110 75 20.20 0.055 P No No Yes 8 x 2 x 7 tTwo-, three-, four-,										_	ľ		1 1			Simultaneous stereo and bridged mono output; operates into 2 ohms.
LA/52 499.00 A 110 75 20-20 0.005 P No No Yes 8 x 2 x 16 Operates into 2 ohms; MOS-FET. LINEAR POWER The Runt 65210 179.95 A 16 40-20 0.75 P/8 No No Yes 8 x 2 x 16 Operates into 2 ohms; MOS-FET. LINEAR POWER The Runt 65210 179.95 A 32.5 20-20 0.12 P/8 No No Yes 2 x 74/a x 5½ 45210 249.95 A 32.5 20-20 0.01 P/8 No No Yes 2 x 74/a x 5½ 95210 299.95 A 47.5 20-20 0.01 P/8 No No Yes 2 x 74/a x 5½ 95210 299.95 A 75 20-20 0.07 P/8 No No Yes 2 x 74/a x 5½ 250210 599.95 A 125 20-20 0.05 P/8 No No Yes 2 x 74/a x 9½ Mono		LA204	369.00	Ä			100	20 x 4†	20-20	0.02	P	No	No		8 X 2 X 7 8 X 2 X 7	†Two-, three-, four-, five-, or six-channel operation, Operates Into 2 ohms.
65210 179.95 A 32.5 20.20 0.13 P/S No No Ves 2 x 734 x 5½ 45210 249.95 A 22.5 20.20 0.01 P/S No No Yes 2 x 734 x 5½ 95210 299.95 A 22.5 20.20 0.01 P/S No No Yes 2 x 734 x 5½ 150210 299.95 A 75 20-20 0.05 P/S No No Yes 2 x 734 x 5½ 250210 299.95 A 75 20-20 0.05 P/S No No Yes 2 x 734 x 5½ 250210 399.95 A 75 20-20 0.05 P/S No No Yes 2 x 734 x 9½ 250210 599.95 A 125 20-20 0.05 P/S No No Yes 3 x 9½ x 14½ 250210 999.95 A 125 20-20 0.12 P/S No No </td <td>LINEAR POWER</td> <td></td> <td></td> <td></td> <td><u> </u></td> <td> </td> <td>110</td> <td></td> <td>1</td> <td></td> <td>l.</td> <td></td> <td>\rightarrow</td> <td></td> <td></td> <td>Operates into 2 ohms; MOS-FET.</td>	LINEAR POWER				<u> </u>		110		1		l.		$ \rightarrow $			Operates into 2 ohms; MOS-FET.
		65210 45210 95210 150210 250210 500210	179.95 249.95 299.95 399.95 599.95 999.95	A A A A A				32.5 22.5 47.5 75 125 250	20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.12 0.01 0.05 0.07 0.05 0.12	P/S P/S P/S P/S P/S	No No No No	No No No No No	Yes Yes Yes Yes Yes Yes	2 x 7¾ x 5½ 2 x 7¾ x 5½ 2 x 7¾ x 7½ 2 x 7¾ x 7½ 3 x 9½ x 12	Mono subwoofer amo
	(Continued)				L					0.00	1		.03	149	L R F / T R 372	

Definition

"It's difficult to explain just how important a role a crossover plays in a good automotive stereo system... the ability to adjust both the low/mid and mid/high crossover points as well as the overall output is crucial to balancing your system... a crossover-tweaked system can have nearperfect tonal balance as well as a smooth, spacious sound and an improved sound stage." Michael Smolen. User's Evaluation.

XM-7 Multi-Function Mobile Electronic Crossover (Patent Pending)

Honored as "one of the most innovative consumer products of 1990" at the Innovations '90 Design & **Engineering Exhibition** event held at the 1990 International Summer Consumer Electronic Show. this powerful, multifunction electronic crossover is a masterpiece of audio engineering. It may very well become the reference standard for electronic crossover design technology.



Features:

- **Exclusive Infinite Electronic** Crossover Design
- Dual 4-Way Crossovers for Bi-Quad-Amp Systems
- Front/Rear Inputs with Front/ Rear/Subwoofer Outputs
- Separate Front/Rear Parametric Equalizer with Gain, Frequency and Bandwidth Adjustments
- Constant Subwoofer Outputs Asymmetrical Electronic
- Crossover Frequency Multiplier
- Parallel Input Switch
- Woofer/Enclosure Equalization
- Phase Inverter for Subwoofer
- Output Adjustable Output Level
- Stereo/Mono Subwoofer
- Gold Plated RCA Connectors
- Power On and Remote Indicators
- Low Battery Indicator



XM-5 Mobile Electronic Crossover (Patent Pending)

The XM-5 eliminates compromises normally associated with many installations and provides near perfect system tonal quality with superior imaging. It features unique mono front center channel for perfect sound staging as well as rear center channel for rear-fill ambience. Coustic's XM-5, newest member of the awesome XM family, may set the standards against which all electronic crossovers will be judged.

Features:

- Exclusive Infinite Electronic Crossover Design
- Flexible 2, 3-Way Crossovers for Multi-Amp Systems
- Front/Rear Inputs with Front/ Rear/Subwoofer Outputs
- Constant Subwoofer Outputs Mono Front and Rear Center
- Channel Outputs
- Asymmetrical Electronic
- Crossover
- Frequency Multiplier Parallel Input Switch
- Woofer/Enclosure Equalization Phase Inverter for Subwoofer Output
- Adjustable Output Level
- Stereo/Mono Subwoofer
- High/Low Impedance Inputs Built-in Floating/Common
- Ground Adapto
- Gold Plated RCA Connectors

XM-3 Mobile Electronic Crossover (U.S. Pat No. 4,905,284)

The XM-3 is an installer's dream come true... but the real beauty lies in the crossover's ability to be configured for practically any amplifier/speaker system you can think of ... it's a very useful product and a tremendous value.'

Michael Smolen User's Evaluation, CAR STEREO REVIEW Summer 1988



Features:

- Exclusive Infinite Electronic Crossover Design
- Front/Rear Inputs with Front/ Rear/Subwooter Outputs
- Constant Subwoofer Outputs Asymmetrical Electronic
- Crossover
- Frequency Multiplier
- Parallel Input Switch
- Woofer/Enclosure Equalization Phase Inverter for Subwoofer
- Output
- Adjustable Output Level
- Stereo/Mono Subwoofer





XM-1 Mobile **Electronic Crossover**

The XM-1 provides two separate sets of crossover frequencies for high and low pass circuits. Powerful, vet simple, the XM-1 perfectly matches any subwoofer/woofer and mid/tweeter combination in the audio system.

Features

- Asymmetrical Electronic Crossover
- High/Low Impedance Inputs
- Built-in Floating/Common Ground Adaptor
- Adjustable High-Pass and Low-Pass Crossover Frequencies
- Adjustable Input Sensitivity Gold Plated RCA Connectors
- Compact, Low-Profile Cabinet Design

Coustic's family of XM's is designed with an elegant, modular approach to system performance and expansion. From the most complex and exotic to the simplest single crossover system, XM defines award-winning car audio.



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			/		LED B	2	100	101 Info	Contraction .	10 061		and the second sec	Contraction of the second		•
MANUFACTURER	. Hoole	Pice		(d) out	Bander of ED B	and Court	Walls Chang.	Corte-		Per ElA 190 Ou		And Control of the second	No.	Climentices I	tons
LINEAR POWER	2001SW	499.95		/-	e / 60"	/ "	200 x 1	20-5	0.05		7	Yes	F Q	2 x 7¥4 x 12	<i>{</i>
(Continued)	8002SW PA-1 PA-II	1599.95 199.95 349.95	A PE P/E	3 4	12 16	100 105	800 x 1	20-20	0.09	P/S P/S P/S P/S	Yes	No No	Yes Yes Yes	3 ¹ / ₂ x 1 ⁹⁴ x 12 3 ¹ / ₂ x 10 x 17 1 x 6 ¹ / ₂ x 3 ¹ / ₂ 1 x 6 ¹ / ₂ x 3 ¹ / ₂	As above. Monoblock. Half-DIN size; two-input switching. Half-DIN size; 32-d8 gain; with separate, wired controls for custom mounting, Model PA-II-R, 5499-95.
	4253 4503 4753 2202 Servo	399.00 499.95 599.95 999.95	A A A A				25 x 4 50 x 4 75 x 4 220 x 1	20-20 20-20 20-20 20-1	0.08 0.08 0.08 0.05	P/S P/S P/S P/S		Yes Yes No	Yes Yes Yes Yes	2 x 10 x 8 2 x 10 x 10 2 x 10 x 12 3 x 9 ¹ / ₂ x 9 ³ / ₄	Servo mono subwoofer amp; includes four 8-inch subwoofers (see "Speakers").
	5002 Servo	1799.95	A				500 x 1	20-1	0.05	P/S		No	Yes	3 x 91/2 x 141/2	As above but with two 12-inch subwoofers.
MAJESTIC	MAX AMP 50 MAX AMP 100 MAX AMP 150 MEB700FC MEB2010 MEB1070S MEB7300	250.00 300.00 400.00 79.95 89.95 99.95 199.95	A A A E P/A E A E A E	7 10 7 7	12 12 12 12	80 80 65 65 70 70	50 100 150 30 50 40	20-20 20-20 20-20 20-20 20-20 20-20	0.05 0.05 0.05	P P P/S P/S P/S	No No Yes Yes Yes	No No No No No	Yes Yes Yes Yes Yes	7 ³ / ₄ x 8 ¹ / ₄ x 2 ¹ / ₄ 11 x 8 ¹ / ₄ x 2 ¹ / ₄ 15 ¹ / ₂ x 8 ¹ / ₄ x 2 ¹ / ₄ 5 ³ / ₅ x 1 x 5 ¹ / ₅ 7 x 1 ¹ / ₄ x 5 ¹ / ₅ 7 x 1 x 5 ¹ / ₂	Bridgeable. As above. Floating and common ground. As above; passive EQ capability. Includes spectrum analyzer; boost bypass switch; floating and common ground.
	MEDIGUU	199.90	AL	ľ	12	/0	50 x 4	20-20		P/S	Yes	No	Yes	6¾ x 2 x 6¾	Includes spectrum analyzer and pink- noise generator with mike; four EQ memories; CD input jack; floating and
	MPA7000 MPA8000S	79.95 89.95	P/E P/E	7	12 12	65 70				P	Yes	No	Yes	5½ x 1½ x 4	common ground. Illuminated panel; floating and common ground.
	MPA6PG MPA8500S	99.95 109.95	P/E P/E P/E	5 7	12 12 12	100 70			0.1 0.02 0.02	P/S P/S P/S	Yes No Yes	Yes No Yes	Yes Yes Yes	7 x 1 x 5½ 7 x 1 x 4½ 7 x 1 x 4½	Floating and common ground. Parametric. Four-channel operation; 9-V powering for
	MPA7 Cobra MA60	159.95 49.95	P/E A	7	12	65 50	20	F0 45	0.3	P/S	Yes	No	Yes	2 x 6 ¹ /2 x 1	portable CO players; CO input. Gooseneck; subwoofer output; common and floating ground.
	MA120 MA160A	79.95 119.95	Â			50 65 70	30 50 80	50-15 20-20 20-20	0.9 0.1 0.05	P/S P/S P/S	No No No	No No Yes	Yes Yes Yes	4 ¹ / ₂ x 1 x 5 ¹ / ₂ 8 ⁵ / ₈ x 2 ³ / ₈ x 3 ³ / ₄ 5 ¹ / ₈ x 2 ¹ / ₂ x 7 ⁷ / ₈	BTL output circuit. Bridgeable; MOS-FET; operates into
	MA550H0 MA770SW MA8900A MA9100A	169.95 249.95 69.95 189.95	A A A A			70 70 80 80	50 80 40 36	20-20 20-20 20-20 20-20 20-20	0.05 0.05 1 0.05	P/S P/S P/S P/S	No No No	No Yes No No	Yes Yes Yes Yes	7 ⁷ /8 x 7 ⁷ /8 x 2 ¹ /2 7 ³ /8 x 8 ⁵ /8 x 3 ⁵ /8 5 x 1 ³ /4 x 4 ³ /4 10 ¹ /2 x 2 ³ /4 x 6	2 ohms. As above. As above. BTL circuitry. Bridgeable; MOS-FET; Class A for 2-ohm
	MA9300SW MS9400SW MA9500SW MA9800A MA430HD	249.95 269.95 299.95 599.95 279.95	A A A A A			80 80 80 80 80	50 75 100 200 70 x 2†	20-20 20-20 20-20 20-20 20-20 20-20	0.05 0.05 0.05 0.05 0.05 0.05	P/S P/S P/S P/S P/S	No No No No No	Yes Yes Yes Yes No	Yes Yes Yes Yes Yes	10 ¹ / ₂ x 2 ³ / ₄ x 8 10 ¹ / ₂ x 2 ³ / ₄ x 9 ¹ / ₄ 10 ¹ / ₂ x 2 ³ / ₄ x 10 10 ¹ / ₂ x 2 ³ / ₄ x 18 10 ¹ / ₂ x 2 ³ / ₄ x 18	operation. As above. As above. As above. As above. TWo-, three-, or four-channel operation. TWo-, three-, or four-channel operation.
MAXITRON	MA460HD MA-3500 MA-4500	299.95 115.95	A	-		80 80	300 x 2† 75	20-20 20-20	0.05	P/S P/S	No	No No	Yes Yes	11 x 2 ³ /4 x 11 ¹ /4 8 ¹ /2 x 2 ¹ /8 x 8	As above. Bridgeable.
MEI	MQ-1100 DA7255	184.95 63.95 329.95	A A/E A	10	12	80 75	100 40 110	20-20 20-20 20-20	0.05	P/S S	Yes	No No	Yes Yes	81/2 x 21/8 x 10 11/4 x 61/2 x 51/4	As above.
	DA7440 DA7230 DA7220 DA72210 PA7420 PA7420 PA7220 EA6100 EA6200 EA6300 EA6350	322.55 279.95 224.95 165.95 79.95 59.95 59.95 59.95 79.95 99.95 169.95	A A A A A A E A E A E A E	7 7 7 7		95 95 95 75 75 70 70 70 70	50 x 4 70 50 15 x 4 12 x 4 12.5 12.5 12.5 12.5 x 2,	20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-25 20-25 20-25	0.5 0.5 0.5 0.5 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	P/S P/S P/S P/S P/S P/S P/S P/S	No No No No No No Yes Yes Yes Yes	Yes No No No No No No No No No	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	$\begin{array}{c} 14 x 9^{1/2} x 2^{1/4} \\ 14 x 9^{1/2} x 2^{1/4} \\ 1^{1/6} x 9^{1/2} x 2^{1/4} \\ 7^{1/4} x 9^{1/2} x 2^{1/4} \\ 7^{1/2} x 4^{1/2} x 1^{3/4} \\ 6 x 4^{1/2} x 1^{3/4} \\ 6 x 4^{1/2} x 1^{3/4} \\ 7^{1/4} x 6^{1/6} \\ 7^{1/6} x 6^{1/6} \\ 7^{1/6} x 1^{1/6} x 6^{1/6} \\ 7^{1/6} x 1^{1/6} x 6^{1/6} \\ 7^{1/6} x 1^{1/6} x 5^{1/2} \\ 7^{1/6} x 1^{1/6} x 1$	Bridgeable. As above. As above. As above.
	EA6470 EP6250	199.95	A/E	7		70	20 x 2 12.5 x 2, 20 x 2	20-25	0.8	P/S	Yes	No	Yes	7 x 2 x 7½	
METROSOUND	MPX 504 MPX 752 MPX 402 MPX 420 MPX 280 MQ 9900	89.95 250.00 200.00 150.00 120.00 70.00 70.00	E A A A A A E	7	10	70 80 80 80 80 80 80 80	50 x 4 75 40 20 20	23-30 20-30 10-41 17-40 20-30 20-20	0.05 0.03 0.90 0.90 1.0	S P/S P/S P/S P/S P/S P/S	Yes	Yes	Yes Yes Yes Yes Yes Yes Yes	7 x 1 x 5 ³ /4 8 ⁷ /a x 2 ⁵ /a x 16 ⁷ /a 8 ⁷ /a x 2 ⁵ /a x 12 ⁵ /a 8 ⁷ /a x 2 ⁵ /a x 11 ⁷ /a 7 x 2 ¹ /2 x 6 ¹ /2 7 x 1 ³ /4 x 5 ¹ /4	Bridgeable; operates into 2 ohms. As above. As above. Bridgeable.
MILBERT	MQ 99071 MQ 9807p BaM-230	100.00 100.00 1895.00	A/E P/E	77	10 12	80 80 90	35	20-20 20-60	1.0 2	P/S P P/S	Yes Yes No	No Yes No	Yes Yes Yes	6 ¹ ⁄ ₄ x 1 ⁷ ⁄ ₁ x 6 ¹ ⁄ ₄ 7 x 1 x 5 ¹ ⁄ ₄ 18 x 4 ¹ ⁄ ₂ x 6 ³ ⁄ ₄	CO input. As above. Bridgeable; tube design.
AMPLIFIERS	TC-2R TC-4R	670.00 830.00	P E P/E	22	10 10	90 90			2	P P	Yes Yes	Yes Yes	Yes Yes	7 x 2 x 4 ¹ /2 7 x 2 x 4 ¹ /2	Tube/transistor design. As above.
ELECTRONICS	MM-50 MM-100 MM-150 MM-250	468.95 610.95 751.95 1059.95	A A A			85 89 97 100	25 50 75 125	10-40 10-40 10-40 10-40	0.05 0.05 0.05 0.05	P P P	No No No No	NO NO NO NO	Yes Yes Yes Yes		Bridgeable. As above. As above. As above.
MOBILE. Authority	106zx 110zx 122zx 124zx 126zx 130zx 158zx 178zx	159.95 189.95 279.95 299.95 329.95 169.95 249.95 149.95	A A A A A A E E	777	12 12	89 89 105 105 105 115 90 70	90 90 x 4 100 150 100 x 4 40 120	18-30 18-30 12-50 12-50 12-50 8-45 20-12	0.5 0.5 0.02 0.02 0.02 0.02 0.02 0.03 0.03	P.P.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S	No No No No No No Yes Yes	NO NO NO NO Yes Yes	Yes Yes Yes Yes Yes No No	2 x 9 ³ /4 x 71/4 2 x 9 ³ /4 x 10 15 ³ /4 x 9 ³ /4 x 2 ¹ /8 2 x 9 ³ /4 x 4 7 x 1 ³ /8 x 5 ³ /4	As above. As above. Bridgeable. As above. As above. As above. As above; MOS-FET. Includes spectrum analyzer; CO input. Gooseneck.

AUDIO/MAY 1992



INNOVATIVE REFERENCE

"Kinergetic's KCD-20... the first CD player to crack the Class 1 Sound barrier" Peter Montcriaff "International Audio Review", Hotline #43-45.

"...Kinergetics KCD-40 has become an integral part of my playback system. I recommend it very highly, especially to those who have had monumental difficulty coming to any terms with the CD format." Neil Levenson Fanfare, Jan/Feb 1990.

"...Kinergetics offers its purchaser more than a glimpse of what the best CD sound is all about." John Atxinson Stereophile Vol. 13, No. 1.

"A generation later, transistor designs by such companies as Levinson, Krell, and Threshold have gained my respect as being eminently musical despite their silicon hearts. To this list I can now add Kinergetics Research." Dick Olsher Stereophile Vol. 13, No. 1.

"Kinergetics pulled off what I considered to be a near miracle. They successfully integrated a subwoofer with the twitchy Martin-Logan CLSes... the tonal balance through the lower octaves was just right. The deep bass and midbass were tight and well-detailed" Dick Olsher

Stereophile Vol. 13, No. 3.

We will continue to create improvements in areas of psychoacoustic that others have yet to discover.

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	/		/	 	ED Bans (A).		18 Vishied	Ohme		244 OF 20.	e)(e.				
MANUFACTURER	Moder	- Silice		(c) dine	Bonner of ED Bann	S.M. Cul Range	Mallo, 08, 4-Weighten Parts Chans, 4-Weighten Port, 5-Chans, 4-Weighten	Full P.	THO at 6 Bandwildh, H.	-or ElA-100 Output	in the second	first Controls	P.C.	Dimensions, inc.	tones
MONOLITHIC	<u> </u>	(ŕ.	\square	~~~~	\vdash		1	<u> </u>	1	\vdash	<u> </u>	<u> </u>		<i>(</i>
SOUNO	PA-100 PA-200 PA-400 PA-700 PA-1000S PA-1000Q PA-1000F PA-1000X	99.00 149.00 249.00 399.00 499.00 549.00 599.00 649.00	A A A A A A A			100 100	20 x 1 20 x 4 70 50 25 x 4 25 x 4 25 x 4 25 x 4	20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.1 0.1	P/S P P P P P P	Yes	Yes	Yes Yes Yes Yes Yes Yes Yes	4 ¹ / ₄ x 15/ ₈ x 4 ¹ / ₄ 4 ¹ / ₄ x 15/ ₈ x 4 ¹ / ₄ 4 ³ / ₄ x 15/ ₈ x 4 ¹ / ₄ 6 ¹ / ₂ x 2 ³ / ₄ x 6 ³ / ₄ 6 ¹ / ₂ x 2 ³ / ₄ x 9 ¹ / ₂ 6 ¹ / ₂ x 2 ³ / ₄ x 11 ¹ / ₂ 2 ³ / ₄ x 11 ¹ / ₂ x 6 ¹ / ₂ 2 ³ / ₄ x 11 ¹ / ₂ x 6 ¹ / ₂	Mono center-fill or subwoofer amp. Operates into 2 ohms. Operates into 1 ohm. Operates into 2 ohms. Crossover frequency adjustable from
	PA-2000 PA-2000M PA-2400 PA-2400F PA-2400X	499.00 549.00 549.00 599.00 649.00	A A A A				100 240 x 1 60 x 4 60 x 4 60 x 4	20-20 20-20 20-20 20-20 20-20 20-20		P P P P	Yes	Yes	Yes Yes Yes Yes Yes	6 ¹ / ₂ x 2 ³ / ₄ x 9 ¹ / ₂ 6 ¹ / ₂ x 2 ³ / ₄ x 9 ¹ / ₂ 6 ¹ / ₂ x 2 ³ / ₄ x 11 ¹ / ₂ 6 ¹ / ₂ x 2 ³ / ₄ x 11 ¹ / ₂ 6 ¹ / ₂ x 2 ³ / ₄ x 11 ¹ / ₂	20 Hz to 15 kHz. Operates into 2 ohms. Monoblock; operates into 1 ohm. Operates into 2 ohms. Biamp capable; independent high- and
	PA-5000 Class A 50S Class A 50 EQ-4 PEQF	1199.00 499.00 599.00 359.00	A A P/E P/E	4	18	105	240 25 50 x 1	20-20 20-20 20-20		P P P	Yes		Yes Yes Yes Yes	13 x 3 ¹ / ₂ x 11 ¹ / ₂ 6 ¹ / ₂ x 2 ³ / ₄ x 6 ³ / ₄ 6 ¹ / ₂ x 2 ³ / ₄ x 10 1 ¹ / ₂ x 4 ³ / ₄ x 3 ¹ / ₂ 1 ¹ / ₄ x 7 x 4	low-pass crossover frequencies. Operates into 1 ohm. Class A. As above; monoblock. BI-FET; Illumination. Parametric EQ; half-OIN size; illumination.
MTX ROAD THUNDER	RTA225 RTA250	119.95 299.95	A A			85 90	25 50	20-20 20-20	0.08 0.05	P/S P/S		No No	Yes Yes	5 ⁷ /8 x 5 ³ /4 x 1 ⁷ /8 9 x 8 ⁷ /8 x 2 ¹ /2	Operates into 2 ohms. As above; simultaneous stereo and
	RTA2100 RTA450	439.95 459.95	A			90 90	100 50 x 4	20-20 20-20	0.05 0.05	P/S P/S		No No	Yes Yes	14½ x 8½ x 2½ 16½ x 8½ x 2½	bridged mono output; variable bass boost As above. Simultaneous stereo and bridged mono output.
MTX/ TERMINATOR	MTA225 MTA250	550.00 650.00	A			102 102	25 50	20-20 20-20	0.02	P/S		Ma	Yes	8½ x 2¾ x 12	Simultaneous stereo and bridged mono output; operates into 1 ohm.
NAKAMICHI	PA-102 PA-202 PA-301 PA-302 PA-304 Power Port 1	139.00 330.00 530.00 530.00 550.00 160.00	A A A A A			100 110 110 110 110 110 100	14 40 160 x 1 80 90 x 2† 14 x 4	10-50 10-50 10-50 10-50 10-50 10-50	0.02 0.008 0.005 0.005 0.005 0.005 0.005	P/S P P P P tt	No No No No tt	No No No No No Tt	Yes Yes Yes Yes Yes tt	8 ¹ / ₂ x 2 ³ / ₈ x 14 3 ¹ / ₂ x 1 ¹ / ₂ x 5 7 ¹ / ₂ x 2 ¹ / ₄ x 7 ¹ / ₂ 12 ³ / ₈ x 2 ¹ / ₄ x 7 ¹ / ₂ 12 ³ / ₈ x 2 ¹ / ₄ x 7 ¹ / ₂ 12 ³ / ₈ x 2 ¹ / ₄ x 7 ¹ / ₂ 7 ¹ / ₄ x 2 ¹ / ₈ x 6 ³ / ₉	As above. Bridgeable. Monoblock. Bridgeable. †Two-, three-, or four-channel operation. ††For use with Mobile Tuner Oeck 1, 2, or 3 (see "Radios").
	Power Port 2 Power Port 3 CA-101	150.00 50.00 650.00	A P P	3		100	14 x 2†	10-50	0.05	l tt P	tt Yee	Yes	†† 	7¼ x 2½ x 6¾ 7¼ x 2½ x 6¾	Line level out; for use with Mobile Tuner Deck 1, 2, or 3.
NUMARK	DA2020WC DA2020	445.00 410.00	AA	J		103	100 100	10-20 10-20	0.03	r	Yes	No No No	Yes	71/8 x 1 x 5 21/2 x 12 x 81/8	
ORION	Cobalt 230	196.00	A			110	30	6-30	0.03	P/S	No	ND	Yes Yes	2½ x 11½ x 8½ 8 x 2 x 7	Mounts inside speaker enclosure. Simultaneous stereo and bridged mono output; MOS-FET.
	Cobalt 260 Cobalt 430 220GT 420GT	273.00 345.00 194.00 458.00	A A A A			110 110 110 110	60 30 x 4 20 20 x 4†	6-30 6-30 6-30 6-30	0.03 0.03 0.03 0.03 0.03	P/S P/S P/S P/S	No No No No	Na No No Yes	Yes Yes Yes Yes	8 x 2 x 9 8 x 2 x 11 5 x 6½ x 1¾ 12 x 6½ x 1¾	As above. As above. As above. †Two-, three-, or four-channel operation.
	620GT	586.00	A			110	20 x 6†	6-30	0.03	P/S	No	Ħ	Yes	18 x 6½ x 1¾	As above. †Two-, three-, four-, five-, or six-channel operation. ††Three-way crossover. As
	240GX	348.00				110		6-30	0.03	P	No	Na	Yes	7½ x 8½ x 2¼	above. Simultaneous stereo and bridged mono output.
	280GX 222SX	494.00 331.00	Å			110 110	80 22	6-30 6-30	0.03	P P	No No	Ne No	Yes Yes	11 x 8½ x 2¼ 8½ x 8½ x 2¼	As above. As above; simultaneous 15-dB boost at 40 Hz, 4-dB cut at 200 Hz, and 6-dB boos at 10 kHz.
	250SX 275SX 2150SX 2250SX 2250HCCA 250HCCA 2100HCCA GS100	475.00 545.00 725.00 1450.00 545.00 744.00 1470.00 910.00	A A A A A A A A A			110 110 110 110 110 110 110 110	50 75 150 250 50 50 50 50	6-30 6-30 6-30 6-30 6-30 6-30 6-30 6-30	0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03	P P P P P P	ND ND ND ND ND ND ND	Ne No No Na Na Na Na	Yes Yes Yes Yes Yes Yes Yes	10 x 8 ¹ / ₂ x 2 ¹ / ₄ 12 x 8 ¹ / ₂ x 2 ¹ / ₄ 17 x 8 ¹ / ₂ x 2 ¹ / ₄ 23 x 8 ¹ / ₂ x 2 ¹ / ₄ 11 x 8 ¹ / ₂ x 2 ¹ / ₄ 17 x 8 ¹ / ₂ x 2 ¹ / ₄ 23 x 8 ¹ / ₂ x 2 ¹ / ₄ 10 x 8 ¹ / ₂ x 2 ¹ / ₄	As above. As above. As above. As above: As above; operates into 0.5-ohm load. As above but operates into 1 ohm. As above. Simultaneous stereo and bridged mono output; simultaneous 15-dB boost at 40 Hz, 4-dB cut at 200 Hz, and 6-dB boost
	GS300 GS500 300PRQ 300PHO 500PMQ 600EQM	1175.00 2750.00 198.00 236.50 398.00 307.50	A A P'E P'E P/E E	3 3 5 6	15 12 15 12	110 110 110 110 110 110	150 250	6-30 6-30	0.025 0.025 0.01 0.01 0.01 0.01 0.01	P P P P P	No No No No No	No No No No No	Yes Yes Yes Yes Yes Yes	17 x $8\frac{1}{2}$ x $2\frac{1}{4}$ 23 x $8\frac{1}{2}$ x $2\frac{1}{4}$ $4\frac{3}{10}$ x $1\frac{1}{2}$ x 4 $6\frac{3}{10}$ x 1 x $4\frac{1}{4}$ 6 x $1\frac{1}{2}$ x $4\frac{1}{4}$ 6 x $1\frac{1}{4}$ x $4\frac{1}{4}$	at 10 kHz. As above. As above. Illumination. Quasi-parametric EQ; half-OIN size. Quasi-parametric EQ; powered by amp. Powered by amp.
PANASONIC	CY-M1004 CY-M654 CY-M1002 CY-M652 CY-M302 CY-M301 CY-EQ10	599.00 419.00 299.00 239.00 59.00 54.00 239.00	A A A A A E	14	12	102 100 102 100 78 78	55 x 4 37 x 4 58 37 12 12 x 1	5-100 5-100 5-100 5-100 10-50 10-50	0.005 0.005 0.005 0.005 0.05 0.05 0.05		Yes		Yes Yes Yes Yes No No Yes	$\begin{array}{c} 1134 \ x \ 214 \ x \ 934 \\ 1134 \ x \ 214 \ x \ 9 \\ 1134 \ x \ 214 \ x \ 9 \\ 1134 \ x \ 214 \ x \ 6 \\ 1134 \ x \ 214 \ x \ 6 \\ 1134 \ x \ 214 \ x \ 6 \\ 1376 \ x \ 2 \ x \ 5 \\ 1376 \ x \ 136 \ x \ 236 \\ 376 \ x \ 136 \ x \ 236 \\ 376 \ x \ 136 \ x \ 236 \\ 376 \ x \ 136 \ x \ 236 \\ 7 \ x \ 1 \ x \ 5 \\ 7 \end{array}$	Bridgeable. As above. As above. As above. Monoblock.
PHASE LINEAR	PLAX 30 PLAX 60	120.00 270.00	A A			85 85	15 30	30-20 30-20	0.2 0.2	P/\$ P		Yes Yes	Yes	8 ¹ / ₂ x 2 ³ / ₈ x 3 ¹ / ₈ 9 ³ / ₈ x 2 ¹ / ₂ x 5 ¹ / ₈	Bridgeable.
	PLA-200	550.00	A			85	100	±1 20-20 ±1	0.05	P		Yes	Yes	10½ x 2½ x 8¼	As above.
	PLA-234	795.00	A			100	60 x 4	20·20 ±1	0.05	Ρ		Yes	Yes	15 x 25% x 8¼	Bridges to 180 watts x 2.

		/			(E)	/	//	7	/		/	_/			
		/		Ę.	(3) Jolilien	//	. A.Weighted	to + Ohme	, 42 In .		, *				
	Mou _{lei}	Price, S	Preamp (o.	inter (1), Amp (4), c		SW Rallo ± 08	8/2	* on oc.	THO al Randwidth, H	ant Land Output	Entropy of the second s	Inclused in the second s	PCA Inc. Crossoners	Dimonstone, Inches	holes
AANUFACTURER	<u> </u>			/ <u>*</u> /			10	15-70	0.08	P/S	27	Yes	Yes	4 ³ / ₄ x 4 ³ / ₄ x 1	
PHILIPS	DAP100 DAP300 DAP600 DAP900	499.00	A A A			105	80 80 x 4 180	15-70 5-70 5-100	0.08 0.08 0.08	P/S P/S P/S		Yes † Yes	Yes Yes Yes	7 x 12 ¹ ⁄ ₄ x 2 ¹ ⁄ ₂ 12 ¹ ⁄ ₈ x 12 ¹ ⁄ ₄ x 2 ¹ ⁄ ₂ 12 ¹ ⁄ ₈ x 12 ¹ ⁄ ₄ x 2 ¹ ⁄ ₂	Bridgeable. As above. tincludes two crossovers. As above.
PHOENIX GOLO			AE	9		110	75 x 6		0.007			Yes		5 ¹ /2 x 15 x 48	Bridgeable; parametric EQ; operates into 0.5-ohm load; 190-ampere alternator supplied.
	MPS-2500		A			102	50 125		0.01					2 ³ / ₈ x 11 ³ / ₈ x 23 2 ³ / ₈ x 11 ³ / ₈ x 17	Simultaneous stereo and bridged mono output; operates into 0.5-ohm load. As above but operates into 2 ohms.
	MS-2125 MQ-430 MPS-2240 MS-275 M-25 TBA-1	599.00 529.00 479.00 300.00	A A A A P			102 102 102 102 102	30 x 4 24 75 25		0.01 0.01 0.01 0.01			No		23/16 x 113/16 x 11 23/16 x 113/16 x 81/2 23/16 x 113/16 x 81/2 21/4 x 81/4 x 91/4	As above. As above but operates into 0.5-ohm load. As above but operates into 2 ohms. As above: bridges to 80 watts. Converts unbalanced signals to balanced; accepts up to 9-V signals; trunk mount.
PIONEER	GM-H200	600.00	A	-+	-	105	100	20-20 + 0,-1	0.05	P P			Yes	10 ³ /8 x 2 ¹ /4 x 13 ³ /8 10 ³ /8 x 2 x 13 ³ /8	Bridges to 300 watts; simultaneous stereo and bridged mono output. †Two-, three-, four-, five-, or six-channel
	GM-H120 GM-H100	400.00 280.00	A	1	+ 12	100	30 x 4† 50	20-20 + 0,-1 20-20	0.05 0.05	P		No	Yes	103/1 x 21/4 x 131/4	operation. Bridges to 160 watts; simultaneous stereo and bridged mono output.
1	GM-H50	220.00	A	1	+ 12	100	25	+ 0,-1 20-20 + 0,-1	0.05	P	No	No Yes	Yes Yes	10 ³ /8 x 2 x 7 12 ¹ /4 x 1 ⁵ /8 x 8 ³ /4	As above but bridges to 80 watts. Bridgeable.
	GM-H44 GM-H22	310.00 165.00	Â			100 100	25 x 4 25	10-50 10-50	0.05	P	No	No	Yes	9 x 15/8 x 7 ¹ /8 7 ¹ /2 x 1 ¹ /4 x 5 ¹ /8	Simultaneous stereo and bridged mono output. Operates into 2 ohms.
	GM-900 GM-800	140.00 140.00	Å			94 91	25 12 x 4	10-50 20-20 + 0,-1	0.015	P	No	No Yes	Yes	7½ x 1¼ x 5¼ 5½ x 1¼ x 4	Bridgeable; low- and high-cut filters. Operates into 2 ohms.
	GM-600 8P-880	80.00 200.00	A A E	7	12	94 85	18 8 x 4	20-20 + 0,-1 50-15	0.015	P/S	No Yes	No	Yes	7 x 1 x 5 ⁷ /s 7 x 1 x 5 ³ /s	
	BP-650 EQ-6500	155.00 260.00	Ă Ē E	9	12 12 12	85 101 101	12	50-15	5 0.05 0.05	P/S P P	Yes Yes Yes		Yes Yes Yes	7 x 1 x 4 ³ /4	†Subwooter low-pass frequency variable from 40 to 120 Hz; crossover follows EQ. Illumination. Illumination.
PRECISION	EQ-4500 2025AM 2050AM	175.00 249.00 349.00	AA	3	16	102 102	25 50	10-50 10-50 10-50	0.02 0.02 0.02	P P	No No No	No No No	Yes Yes Yes	8 x 2.1 x 6.1 8 x 2.1 x 8.5 8 x 2.1 x 10	Bridgeable. As above. As above.
	2075AM 2150AM A-600	449.00 629.00 649.00	A			102 102 102	75 150 150	10-50 10-50 10-50 10-50	0.02	P P	No No	No No No	Yes Yes Yes	8 x 2.1 x 12.2 9.3 x 1.9 x 12.2	As above. As above.
	2200AM 2300AM 2350DM 4100AM 4200AM AX400 5075DX	799.00 949.00 1869.00 399.00 529.00 699.00 899.00	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			102 102 102 102 102 102 102 102	200 300 350 25 x 4 50 x 4 50 x 4 50 x 2.	10-50 10-50 10-50 10-50 10-50 10-50 10-50	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	P P P P	No No No Ye: No	No No No No Yes	Yes Yes Yes Yes	8 x 2.1 x 24 8.5 x 3.6 x 23 8 x 2.1 x 11.1 8 x 2.1 x 12 9.3 x 1.9 x 15.1 8 x 2.1 x 19.2	As above. As above. As above. As above. As above.
	APA50 APA100 APA200 APA301X APA6301X	199.00 299.00 399.00 369.00 549.00	AA			93 93 93 93 93 93 102	75 x 2 25 50 100 30 x 4 30 x 6 12.5	10-30 10-30 10-30 10-30 10-30 10-30	0.08 0.08 0.08 0.08 0.08 0.08 0.08	P P	No No No No	No No No	Yes Yes Yes	8.2 x 2 x 7.1 8.2 x 2 x 9.6 8.2 x 2 x 10.1 8.2 x 2 x 14.1 8 x 2.1 x 6.1	As above. As above. As above. As above. As above. As above. As above.
	PRO MOS 12 PRO MOS 25 PRO MOS 50 PRO MOS 425 PRO MOS 450 PRO MOS 450 PAR225 PEQ-114	349.00 499.00 649.00 899.00 899.00 499.00 259.00	A A A A P/E	5	18	102 102 102 102 102 110 110	25 50 25 x 4 50 x 4	10-30 10-30 10-30 10-30 10-30	0.02 0.02 0.02 0.02 0.02 0.00	P P 2 2 2 2 2	l No	No No SNO No	Ye: Ye: Ye: Ye: Ye: Ye: Ye:	s 8 x 2.1 x 12 s 8 x 2.1 x 18 s 8 x 2.1 x 18 s 8 x 2.1 x 24 s 6.8 x 1 x 4.8 s 6.8 x 1 x 3.1	As above. As above. As above. As above. t + 10, -6 dB.
PREMIER	EQM-300 CD-1000	99.00		3	12	102			0.00	P	Ye	1 21	Ye	s 10 ¹ /4 x 2 ¹ /4 x 9	Parametric EQ; subwoofer output. †Three way crossover. †Digital signal processor with five sound
	DEQ-7500	700.00	D t	7	10					P					fields, parametric and graphic EQ, optica digital input, and center-channel and subwoofer outputs.
PRESTIGE	PEQ-70 AMP61	120.0		7	12	95	15	20-20		P		D N	o Ye	s 13/4 x 6 x 31/2	
PROFILE	AMP61 AMP104 AMP204 AMP251 PR0707 PR0707 PR0505 PR0303 AE010 PE07	03.00 110.0 125.0 155.0 280.0 340.0 230.0 180.0 70.0 99.9	0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 AE	2 2 2 10 7	+1+++++++++++++++++++++++++++++++++++++	95 10 10 10 12 12 10 12 10 12 10 12 10	15 x 4 0 30 50 0 75 0 75 0 50 0 50 0 30 25	20-20 20-25 20-25 20-25 20-25 20-25 20-25 20-25 30-20	0.0 0.0 0.0 0.0 0.0 0.0	2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 3 S		0 N 0 N 0 Y 0 Y 0 Y 8s N 8s Y	0 Ye 0 Ye es Ye es Ye es Ye es Ye es Ye	$\begin{array}{c} 2\frac{1}{8} \times 8\frac{3}{4} \times 6\\ 2\frac{1}{8} \times 8\frac{3}{4} \times 7\\ 2\frac{1}{8} \times 8\frac{3}{4} \times 7\\ 10\frac{1}{2} \times 2\frac{3}{8} \times 8\frac{3}{4} \times 10^{1}\\ 10\frac{1}{2} \times 2\frac{3}{8} \times 8\frac{3}{4}\\ 88 \times 2\frac{3}{8} \times 8\frac{3}{4}\\ 88 \times 7 \times 1 \times 7\\ 88 \times 7 \times 1 \times 7\\ 88 \times 7 \times 1 \times 7\end{array}$	4 As above. As above. As above. Line and CD inputs.
PROTON	CA-490	599.0	A 00			90	30 x 2							es 10 x 3½ x *5½	As above.
	CA-260 CA-250 CA-230 CA-232 CA-212 CQ-273 271	299.0 349.0 149.0 249.0 89.0 349.0 179.0	00 A 00 A 00 A 00 A 00 A 00 P/E		10		50 30 25 12	20-20 20-20 20-20 20-20	0 0.0 0 0.0 0 0.0	15 1 15 1 15 1 15 1	P N P N P N P N	io N Io N Io N Io N Io N	io Y io Y io Y io Y /es Y	es 1C x 3½ x 10 es es es 7 x 15½ x 2½ es 7 x 1 x 6 es 6½ x 15½ x 5½	As above. As above. As above.

AUDIC/MAY 1992

	/	/	/	/	Equalitier (E)		When	Ohns	-	2H4 01 2	0,0.	/			
MANUFACTURER	Money	Arce .	Press	W. (a) aline	Bon of EQ Band (E) Equalitier (E)	S.N.C. Hange	Walls Det Elamon	Full. P.	THO at D andwight, H	Input 1 490 Oulput	Prestorer (P)	fines. Controls	PCA. CIOSSONES	Olinension, Inc.	tholes
PYLE	A50 A100 A200 A400 A140 PA1	245.95 349.95 479.95 665.95 399.95 249.95	A A A A PE	4	12	100 100 100 100 100 100	25 50 100 200 35 x 4	10-50 10-50 10-50 10-50 10-50 10-50	0.09 0.09 0.09 0.09 0.09 0.09 0.01	P P P P P P	No No No No No Yes	No No No No No	Yes Yes Yes Yes Yes Yes	2 x 8 x 7 ⁷ /8 2 ¹ / ₂ x 10 ¹ /4 x 7 ⁷ /8 2 ⁵ /8 x 9 ³ /8 x 12 2 ⁵ /8 x 9 ³ /8 x 15 ¹ /4 2 ⁵ /8 x 12 ¹ /4 x 7 ⁷ /8 1 ¹ / ₂ x 5 ⁵ /8 x 4 ¹ / ₂	Bridgeable. As above. As above. Bi-FET; CO input jack.
UIXOTIC	SEQ14.1	B95.00	E	14	1	100			0.005	P	No	No	Yes	7 x 2 x 4.6	$t \pm 6$ or ± 15 dB. ² / ₃ -octave EQ spacing; constant Q.
RADION	SEQ28.1 D-20	1195.00 80.00	E A	28	+	100 92	25	20-20	0.005	P	No	No	Yes Yes	12 x 2 x 4.6	As above but 1/3-octave spacing.
	0-25 0-410X 0-418MX 0-420MX 0-435MX 0-435MX 0-430MX 0-450MX 0-450MX 0E0-325 0E0-325 0E0-325 0E0-400 0E0-620 0PX-163	120.00 140.00 180.00 210.00 280.00 250.00 340.00 380.00 50.00 60.00 80.00 90.00 120.00	A A A A A A A A A E E F/E	7 10 7 5	12 12 12 12 12 12	92 93 93 95 95 95 95	25 x 4 40 45 65 60 x 4 100 120 85 x 4 50 50 25	20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.045 0.062 0.057 0.057 0.057 0.057 0.057 0.057	S P/S P/S P/S P/S P/S P S P S P S P S P S	Yes Yes Yes Yes No	No Yes Yes Yes Yes Yes No No Yes	Yes Yes Yes Yes Yes Yes Yes	9 x 61/2 x 23/8 81/4 x 93/4 x 23/4 81/4 x 93/4 x 23/4 81/4 x 13 x 23/4 81/4 x 13 x 23/4 81/4 x 13 x 23/4 81/4 x 13 x 23/4	Bridgeable; operates into 2 ohms. As above; Class A; MOS-FET. As above. As above. As above. As above. As above. Baove. Hilumination. Parametric; operates on four channels; separate left and right EQ controls; half- OIN size.
REALISTIC	12-1957 12-1960 12-1955 12-1958 12-1959 12-1961 12-1962 12-1963 12-1867	79.95 139.95 59.95 119.95 79.95 99.95 89.95 49.95 39.95	A A/E A/E A E E A E E E	7 7 7 7 7 7 5 7	12 12 12 12 12 12 12 12 12	100 100 95 60 65	25 x 4 60 x 4 20 x 4 15 x 4 30 x 4 35 x 4	20-25 20-30 15-30 30-25 15-30 30-25 20-30	1.0 1.0 1.0 1.0 0.1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	No Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No No No	Yes Yes No Yes Yes Yes No No	$\begin{array}{c}1 \times 7 \times 6^{7/8}\\1/2 \times 8^{3/4} \times 7^{1/2}\\1^{3/4} \times 6^{3/6} \times 5^{1/6}\\1^{7/6} \times 7^{1/4} \times 6^{3/6} \times 5^{1/6}\\1^{7/6} \times 7^{1/6} \times 6^{1/4} \times 6^{1/2}\\1^{7/6} \times 6^{1/4} \times 6^{1/2}\\1^{3/6} \times 6^{3/6} \times 4^{1/4}\\1^{3/6} \times 6^{3/6} \times 4^{1/4}\\1^{3/6} \times 5^{3/6} \times 4\\\end{array}$	
RDADMASTER	EA 400NI EA 1000N PB 500N	60.00 125.00 35.00	A'E A/E A	5 10	12 12	79 79 79 79	25 x 4 50 x 4 50	15-20 10-20 30-18	10 10 10	S S S	Yes Yes No		No No No	11/8 x 43/4 x 41/2 11/4 x 6 x 41/2 11/8 x 43/4 x 41/2	CD/AUX input.
ROCKFORD FOSGATE	230sd 260sd 460sd Punch 30HO Punch 45HO	129.95 179.95 269.95 179.95 275.00	A A A A	2		105 105 105 80 80	15 30 30 x 4 15 22.5	20-20 20-20 20-20 20-20 20-20 20-20	0.08 0.08 0.08 0.05 0.05	PS PS P/S P P	No No No No	No No No No	Yes Yes Yes Yes Yes	7 ¹ / ₈ x 2 x 4 ³ / ₈ 7 ¹ / ₈ x 2 x 6 ³ / ₈ 7 ¹ / ₈ x 2 x 9 ³ / ₈ 6 ¹ / ₈ x 7 ¹ / ₈ x 1 ¹ / ₂ 5 ¹ / ₈ x 8 ³ / ₄ x 2 ¹ / ₈	Bridgeable. As above. As above. As above. As above; 18-dB bass boost and 12-dB
	Punch 75H0 Punch 150H0 Power 100H0 Power 300 Power 650 Power 1000C PA-1 PA-1H0 DE0-1	399.00 515.00 329.00 999.00 1575.00 2650.00 369.00 369.00 315.00	A A A A P P E	2 2 3 3 9	12 12 9	80 80 80 80 80 90 90 90	37.5 75 15 x 4 50 x 4† 125 x 4† 150 x 4	20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.05 0.05 0.05 0.05 0.05 0.05 0.05	P P P P P P P	No No No No No Yes Yes No	No No Yes Yes No No No No	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	7% x 8% x 21/8 9% x 8% x 22/8 10 x 7 x 11/2 141/4 x 71/4 x 21/2 18% x 7% x 21/2 211/8 x 7% x 3% 6% x 31/2 x 11/2 6% 8 x 1 x 3% 4% x 8% x 11/4	trebie boost. As above. As above. Bridgeable. †Two-, three-, or lour-channel operation.
ROCKSTAR	RST-220 RST-210 RST-164 RST-164 RST-190	105.00 99.00 52.00 49.00	A A A			85 85 85 85	45 35 25 x 4 30	20-20 20-20 20-20 20-20 20-20	0.25 0.25 0.25 0.25 0.25	P/S P/S P/S P/S P/S	No No No	No No No	Yes Yes Yes Yes	11 x 2 ¹ / ₂ x 7 ¹ / ₂ 8 x 8 x 2 ¹ / ₂ 6 ³ / ₄ x 7 ³ / ₄ x 2 6 ¹ / ₂ x 6 ¹ / ₂ x 2 ¹ / ₂	Bridgeable; operates into 2 ohms. Bridgeable.
RODEK	RST-733 RA220	49.00 119.95	P E A	7		89	20	20-20	0.05	P/S P	Yes	No	Yes Yes	7 x 4 x 1 ¹ / ₂ 2 ¹ / ₂ x 8 ⁵ / ₈ x 2 ³ / ₈	CD input.
	RA230E	229.95	٨			85	30	+ 0,•.5 20-20 + 0,•.5	0.05	Р		+	Yes	2½ x 8¾ x 4¾	†"Tilt " control acts as high-pass filter with variable cutoff frequency or as boos below 50 Hz. Bridgeable.
	RA250E	329.95	A			89	50	20-20 + 0, • .5	0.05	P		1	Yes	21/2 x 85/8 x 61/2	Bridgeable.
	RA280E RA2150E	399.95 639.95	A			95 98	80 150	20-20 + 0,5 20-20	0.05	P		† +	Yes	2½ x 8¾ x 8¾ 2½ x 8¾ x 14¼	
	RCA224E	469.95	A			85	24	+0,5	0.05	P		'	Yes	21/2 x 85/8 x 85/8	Operates into 1 ohm.
	RA450	579.95	A			88	50 x 4	+0,5 20-20	0.05	P		Yes	Yes	2 ¹ /2 x 8 ⁵ /8 x 11 ⁷ /8	
	RA425	369.95	A			85	25 x 4	+0,5	0.05	P			Yes	2½ x 8¾ x 8¾	
	RA1125	429.95	A			96	125 x 1	+0,5 20-20 +0,5	0.05	P		††	Yes	21/2 x 85/8 x 61/2	††High-pass section. Monoblock.
SANYD	BPA8250 BPA8455 EQM5 OSP-01	229.99 269.99 149.95 649.99	A A E †	7 5	12 12	100 100 95 90	30 130 x 2† 16 x 1	20-20 20-20 20-20	0.04 0.04 0.007 0.01	P P P	Yes Yes	No No Yes	Yes Yes Yes	9½ x 2½ x 6 11 x 2½ x 9¼ 7 x 1 x 5½ ††	Bridgeabte. \uparrow Two-, three-, or four-channel operation. Mono subwooler output; ground isolation circuit. \uparrow Digital signal processor with parametric EQ; six-channel operation with 16-watt center-channel power; four preset sound fields, six programmable memories. $\uparrow\uparrow$ Controller, 7 x 1% x 1; trunk unit, 7 x 2 x 6.

NUFACTURER	Mode	Antes 5	Columbia (D)	Number 1. Amp (A), Ea	Boost C Ed Bands	S.N. Range ± 08	9	Full Power	1.2	ing,	/	active Communication	The Charles Con-	FC4 Internet	Dimensions, Inc.	Mores
NTREK	SPA 075	44.95	A			77 1		10-20 ± 3	0.01 F	P/S	No	No	Y		x 4½ x 5½	
	SPA 100	64.95	A			77 1	4 2		0.01 1	P/S	No	No	1	- I	1/2 x 7 x 4 ¹ /2	Selectable high-pass crossover frequency.
	SPA 138	84.95	A			78 1	6 3	20-20 ± 3	0.01 1	P/S	No	Yes	1			Selectable mån-hese closector u sammer.
	SPA 140	89.95	A			77	14 x 4 2	20-20 ± 3	0.01 1	P/S	No	No			%ax 81/ax 41/2	An above
	SPA 188	134.95	A			80	30 :	20-20 ± 3	0.01	P/S	No	Yes			1/2 x 8% x 51/8	As above.
	SPA 338	224.95	A			84		20-20 ±1	0.005	P/\$	No	Yes			1/2 z 8% x 7%	Bridgeable. †Two- or three-channel operation.
	SPA 458	349.95	A			86	100 x 2†	20-25 ±1	0.005	P/\$	No	Yet		·	3%1 x 14 x 8¾1	
	SPA 600	629.95	A			90	200 x 2†	20-40 ±1	0.005	P/\$	No	Ko			1 x 17 x 12	†As above. MOS-FET.
	SAQ 1430	59.95	AE	7	12	75	14	20-20 ± 1.5	0.003	S	Yes	No		-	1 1 7 1 4	
	SAQ 1459	74.95	AE	10	12	80	14	20-20 ± 1.5	0.01	S	Yes	No	1		1 x 7 x 4	
	SAQ 1709	74.95	AE	7	12	84	14	20-20 ± 3	0.01	P/\$	Yes	No	1		1 1/8 x 51/2 x 43/4	
	SAQ 2009	89.95	AE	10	12	84	14	20-20 ± 3	0.01	P/S	Yes	; No	' '		1 x 7 x 4¥4	
	SAQ 2309	109.95	AE	7	12	84	14	20-20 ± 3	0.01	P/S	Yes	i No	1		1 x 7 x 4¾	includes spectrum analyzer.
	SAQ 2500	119.95	AE	7	12	84	14	20-20 ± 3	0.01	P/S	Yes	s No	• '		1 x 7 x 4¾	As above; CO input.
	SAQ 4000	169.95	AE	7	12		15 x 2.	20-20	0.01	P/\$	Ye	s No	• '		2 x 7¾ x 7	n ne under latudes siek spice
	SAQ 7400	199.95	AE	7	12	84	28 x 2 14 x 2,	±3 20-20 ±3	0.01	P/\$	Ye	s No	• '	Yes	2 x 7¼ x 7	Four EQ presets; includes pink-noise generator.
	SEQ 740 SEQ 750 SEQ 820	59.95 69.95 89.95 149.95	P/E P/E P/E P E	7 10 7 t	12 12 12 12	90 90 90 90	35 x 2	ž J		P/S P/S P/S P/S	Ye	s No s Ye	D BS	Yes Yes Yes Yes	1 x 7 x 4 1 x 7 x 4 1 x 7 x 4 1 x 7 x 4 1 x 7 x 4	includes spectrum analyzer. †Five front EQ bands, seven rear. Subwoofer level control.
	SEQ 920				40	95			0.05	P	Ye	IS YI	es	Yes	Half DIN	Two fixed and three user-set EQ
SHERWOOD	XQ-1101 XQ-1102 XQ-1023	235.00 125.00 170.00	P/E P/E P/A E P/A E	7 7 7 7	12 10 10 10	85 85 85 85	16 x 4 16	20-20 20-20	0.05	P P P	Ye	IS Y IS N IS N	0	Yes Yes Yes	Hall DIN Hall DIN Hall DIN 5½ x 1¾ x 4	memories; surround capability. Selectable crossover frequency; CD inpu Two surround modes.
	XQ-1021 XA-1040	125.00 95.00	A	'		85	16	10-45	0.5	P		N		Yes		
	XA-1041	110.00	A		1	85	16 x 4	10-45 + 3,-1	0.5	P		1	0	Yes	7½ x 1½ x 5¼ 9 x 3 x 8¾	Bridgeable.
	XA-1100	190.00	A			90	40	15-35 ±3	0.5	P			lo	Yes	10 x 3 x 8 ³ / ⁶	As above.
	XA-1180	250.00	A			90	70	15-35 ±3	0.5	P				Yes	11 x 3 x 9	Two-, three-, or tour-channel operatio
	XA-1181Q	290.00	A			90	30 x 4†	15-35 ±3	0.5	P			lo	Yes		
	XA-1240Q	350.00	A			95	50 x 4†	15-35 ±3	0.5	P			io	Yes	13 x 3 x 9 19¾ x 2¼ « 11¾	++Two-, three-, tour-, five-, or six-
	XAT-400Q	660.00	A		1	105	100 x 4†		0.05	P		0		Yes	181/s x 21/4 x 117/	channel operation. Operates into 1 onr
	XAT-300Q	540.00	A	-		105	75 x 411	20-20	0.05	P	- N	io	-	Yes	51/8 x 11/8 x 31/4	Operates into 2 ohms.
SORY	XM-2020 XM-2040 XM-3020 XM-4020 XM-6020 XM-10020 XM-10020 XM-4040	80.00 150.00 145.00 220.00 280.00 450.00 330.00				95 95 100 100 105 105 105	100	20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.08 0.08 0.08 0.08 0.08 0.08 0.08					Yes Yes Yes Yes Yes Yes	676 x 11/8 x 43/4 9 x 13/8 x 48/4 94/8 x 13/8 x 48/4 94/8 x 13/4 x 6 121/4 x 21/8 x 7 121/4 x 21/8 x 81/2 121/4 x 21/8 x 81/2	Two-, three-, or tour-channel operation As above.
	XM-5540F XM-C6000	500.00 980.00				105 105		20-20 20-20	0.08 0.08	P			Yes 11	Yes Yes	14¼ x 2¼ x 9½ 23¼ x 2¾ x 11	tAs above. tFive- or six-channel operation; six- channel mode, 40 watts x 4 and 70 w x 2. ttTwo- or three-way crossover.
	XE-90 Mkii XE-8 Mkii XE-700	220.0 330.0 550.0	0 E	9 7 10	12 12 12	105 105 105			0.00	5 P 8 P		Yes Yes	Yes Yes No No	Yes Yes Yes Yes	7½ x 1 x 5½ 7½ x 2 x 3½	tPreamp with digital parametric EQ,
SONY ES	XES-P1	1300.0	0 †	6	36	105			0.00							compression, and surround processin controls CD changers (see "CD Changers"), t†Chassis, 9% x 2 x 8% display unit, 7% x 2 x 6%; includes joystick.
	XES-M1	550.0	A			10		5-100						Yes		Monoblock.
SOUND BARRIE	XES-M3 R GA-400	1000.0		+-		65	200	20-30	0.05		5		††	No		Bridgeable, †At 90 watts, ††Subwoof crossover.
	GA-200	208.0	1			65	100	+0,- 20-30 +0,-	0.0	51 8	S		Ħ	No		As above. †At 35 watts.

				7	7	/		77							
				(P) Amo	of EQ Band Chualitier (E)	npe.	10 08. A. Heighed	490 Into 4 Ohms,	rer Banowioli, L	, ma	215°	Menter (3)	Ar.	¹ Manu Jotes	
MANUFACTURER	Hoode	P. S.	Que o	id) our	Ban	540	Walle Change . dg	069-W	THO at C		Providence in the second se	Inc. Control?	Ar.	of hour Jeck	Hores
SOUNDSTREAM	D6011 D10011 D20011 CA5011 CA10011 MC120 MC140X MC140X MC300 MC245	198.00 339.00 499.00 395.00 575.00 369.00 469.00 795.00 599.00	A A A A A A A A A A A A A A A A A A A			100 100 100 100 100 100 100 100	30 50 100 25 50 35 x 4† 35 x 4† 75 x 4† ††	20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	P/S P/S P/S P/S P/S P/S P/S	No No No No No No	NO NO NO NO Yes No Yes	Yes Yes Yes Yes Yes Yes Yes Yes	4.3 x 7.8 x 2.1 6 x 7.8 x 2.1 11 x 7.8 x 2.1 6 x 7.8 x 2.1 11 x 7.8 x 2.1 11 x 7.8 x 2.1 8 x 7.8 x 2.1 8 x 7.8 x 2.1 14 x 2.6 x 10 13 x 6.5 x 2.1	Bridgeable. As above. As above. As above: Class A. As above. †Two-, three-, or four-channel operation. †Two-, three-, four-, or five-channel operation; five-channel mode, 35 watts x 4 and 100 watts x 1.
SPARKDMATIC	SBE7 GE50 LC52 AMP 8000 AMP 7000 LC269	54.99 39.99 19.99 94.99 54.99 59.99	A E A E A A A A	7 5 1	12 12 9	55 55 100 80 50	20 20 20 45 40 18	20-20 20-20 20-20 10-30 20-20	5 5 1 1 10	P/S S S	Yes Yes No No	No No	No No Yes Yes	13/s x 5//s x 5 13/s x 43/4 x 43/4 11/4 x 41/4 x 41/4 21/2 x 71/2 x 63/4 163/4 x 15/s x 163/4 41/4 x 11/s x 4	Includes 6 x 9-inch coaxial speaker.
TARGA	0-10 0-15 0-55MX 0-38MX 0-38MX 0-40MX 0-65MX 0-65MX 0-855 E-815 E-855 E-855 E-855 E-910 E-930 E-940	80.00 120.00 280.00 140.00 210.00 250.00 340.00 340.00 90.00 130.00 150.00 150.00 120.00 250.00 90.00 140.00 140.00	A A A A A A A A A A A A A A A A A A A	7 7 7 7 7 7 5 4 7 7 7	12 12 12 12 12 12 12 12 12 18 12 12 12	92 92 95 93 93 95 95 95 97	25 25 x 4 60 x 4 40 45 65 100 120 85 x 4 200 25 50 50 50 x 4	20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.062 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057 0.057	S S P S S P P S S P P S S P P S S P P S S P P S S P P S S P P S S P P S S P P S S P P S P P S P P S P P S P P S P S P S P S S P P S P S S P S	Yes Yes Yes Yes Yes Yes Yes	NO NO Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes Yes	$\begin{array}{c} 8\frac{1}{4} \times 13 \times 2\frac{3}{4} \\ 9 \times 6\frac{1}{2} \times 2\frac{3}{4} \\ 8\frac{1}{4} \times 9\frac{3}{4} \times 2\frac{3}{4} \\ 8\frac{1}{4} \times 9\frac{3}{4} \times 2\frac{3}{4} \\ 8\frac{1}{4} \times 9\frac{3}{4} \times 2\frac{3}{4} \\ 8\frac{1}{4} \times 13 \times 2\frac{3}{4} \\ 8\frac{1}{4} \times 13 \times 2\frac{3}{4} \\ 8\frac{1}{4} \times 13 \times 2\frac{3}{4} \\ 8\frac{1}{4} \times 13\frac{2}{4} \times 2\frac{3}{4} \\ 8\frac{1}{4} \times 2\frac{1}{4} \times 2\frac{1}{4} \\ 8\frac{1}{4} \times$	Bridgeable; operates into 2 ohms; Class A; MOS-FET. Bridgeable; operates into 2 ohms. As above. As above. As above. As above. As above. As above. CD input. As above. CD input. As above. Parametric EQ; operates on four channels; separate left and right EQ controls. As above but four- or six-channel operation. Illumination. Includes spectrum analyzer. As above; three programmable memories; surround control.
TDSHIBA	TP820 TP840 TP850 TP870 TQ220	369.95 289.95 229.95 199.95 299.95	A A A E	7	12	90 95 95 95 85	50 75 100 150		0.25 0.25 0.25 0.25 0.25 0.1	P/S P'S P/S P/S	Yes	No No No No	Yes Yes Yes Yes Yes	10½ x 25½ x 53% 10½ x 25% x 53% 12% x 25% x 53% 12% x 2½ x 73% 12% x 2½ x 8½ 7 x 1 x 6½	Bridgeable. As above. Includes spectrum analyzer; subwoofer output.
U.S. AMPS	US-25A US-50A US-150A US-250A US-250C US-250C US-250C US-32 US-824 US-824 US-25HCA US-25HCA US-20HCA	179.00 249.00 399.00 499.00 399.00 399.00 199.00 219.00 289.00 479.00 1100.00 1800.00	A A A A A A A A A A A A A A A A A A A			90 90 95 100 100 100 90 90 95 100 100	12.5 25 75 125 250 25 x 4 25 x 1 12.5 25 50 100	20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	P/S P/S P/S P/S P/S P/S P/S P/S P/S P/S	No No No No No No No No No No No	No No No No No No Yes Yes Yes Yes No No No	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	$7\frac{1}{2} \times 2 \times 6$ $7\frac{1}{2} \times 2 \times 7\frac{1}{2}$ $7\frac{1}{2} \times 2 \times 12$ $7\frac{1}{2} \times 2 \times 15$ $7\frac{1}{2} \times 2 \times 18$ $7\frac{1}{2} \times 2 \times 20$ $7\frac{1}{2} \times 2 \times 12$ $5\frac{1}{2} \times 1 \times 6$ $7\frac{1}{2} \times 2 \times 6\frac{1}{2}$ $7\frac{1}{2} \times 2 \times 12$ $7\frac{1}{2} \times 2 \times 12$	Dperates into 2 ohms. Bridges to 800 watts. Mono subwoofer amp; 12-dB boost at 40 Hz; operates into 2 ohms. Bridges to 150 watts into 1 ohm. As above but 300 watts. As above but 300 watts.
U.S.D.	SW30	1650.00 Pair	E	30	t	108			0.009	Р	No	No	No	2 x 19½ x 5	$\dagger \pm 6$ or ± 12 dB. Constant Q.
VECTOR RESEARCH	VM-100 VM-200	249.95 349.95	A A			100 100	50 100	20-20 20-20	0.1 0.1	P/\$ P/\$			Yes Yes	9 x 9 x 1¾ 9 x 11 x 1¾	Bridgeable. As above.
YAMAHA	YPA-1020 YPA-720 YPA-620 YPA-320 YPA-240 YPA-100 YGE-420 YEC-400 YDSP-1	549.00 399.00 319.00 219.00 159.00 89.00 219.00 219.00 129.00 949.00	A A A P/E	7	12	105 105 100 100 100 115	170 x 2† 110 x 2† 60 50 18 x 4 12	20-20 20-20 20-20 20-20 20-20	0.1 0.1 0.1 1.0 1.0 0.02 0.01 0.03	P P P/S P/S P	No No Yes Yes Yes	Yes No Yes No No Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes	$\begin{array}{c} 117_{18} \times 2^{1/4} \times 11^{7/6} \\ 117_{18} \times 2^{1/4} \times 8^{1/6} \\ 8^{1/6} \times 2 \times 2^{1/6} \\ 8^{1/6} \times 2 \times 5^{1/6} \\ 10 \times 1^{1/6} \times 4^{1/6} \\ 10 \times 1^{1/6} \times 4^{1/6} \\ 7 \times 1^{1/4} \times 3^{1/6} \\ 7 \times 1^{1/6} \times 6^{1/2} \\ 8^{1/4} \times 1^{1/6} \times 6^{1/2} \\ t^{1} \end{array}$	$ \begin{array}{l} \label{eq:constraint} \hline r \ v_{2}, \ v_{2}, \ v_{2}, \ v_{3}, \ v_{$
ZAPCO	2300 200s4 2150 2100mvx 2100 250 \$X PX PEQ	909.95 479.95 399.95 339.95 229.95 999.95 545.95 425.00	A A A A A P/E P/E P/E	5 4 9	20 18 18	115 110 110 105 110 100 105 105 92	225 50 x 4 75 100 x 1 50 12.5 x 4	20-20 20-20 20-20 20-20 20-20 20-20	0.01 0.02 0.02 0.01 0.01 0.05 0.003 0.004 0.05		Yes No No	No † No Yes No † Yes No	Yes Yes Yes Yes Yes Yes Yes No	$18 x 6 x 2\frac{1}{4}$ $11\frac{3}{5} x 6 x 2\frac{1}{4}$ $10\frac{3}{5} x 6 x 2\frac{1}{4}$ $10\frac{1}{4} x 6 x 2\frac{1}{4}$ $7 x 6 x 2\frac{1}{4}$ $4\frac{3}{4} x 6\frac{3}{4} x 1$ $7 x 5 x 2$ $8\frac{3}{4} x 4\frac{1}{4} x 1\frac{1}{4}$	Optional remote status display, †Optional crossovers and noise gate. Monoblock: selectable crossover slope and subwooter polarity. †Two crossovers with selectable slopes. Separate left and right EQ controls.

O CHANNEL POW

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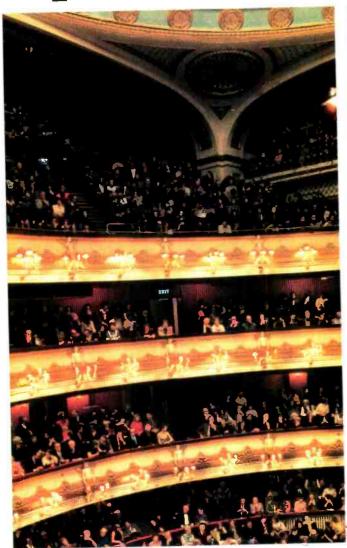
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RADIOS/TAPE PLAYERS

NR Code A = dbx		7		ת 7		7	AMI	PLIF	IER		1		1	UNER		7			T/	APE	
B = Dolby B C = Dolby C D = DNR D = Other		/ ଅ ଅ	-adua	/			00 FTM - 430			100	80	7		2011 (C)	/	/	/	Cotte			(a) (a) (a) (a)
MANUFACTURER	ана	Price	Meester.	The the Clanner	Output Paled Out	Presho (b)	eater.	101-10 Usable CON	Complection of the original	The Mono Switcher Selection	Bo. onen noturin le.	Conting Seet (a) Station Pres	AL CONTRACT CONTRACT (B), 0			/ 🕏	Win An Anic Circuity	<u>.</u>	Fil. Gu Seaths	The Part of the Pa	A 100 100 100 100 100 100 100 100 100 10
AIWA	CT-X8(RDC) CT-X6(RDC) CT-X4 CT-X2 CT-X1 CT-S2700 CT-S2600	499.00 449.00 379.00 319.00 279.00 249.00 199.00	25 x 4 25 x 4 25 x 4 25 8 25 25	0.8 0.8 0.8 1 1 1 1	P P P S P S	3 3 3 3 3 3 3 3 3	12.7 12.7 12.7 12.7 12.7 12.7 14.2 14.2	80 80 70 70 70	76 74 63 63 61 61	24 24 24 24 24 24 24 24 24 24	C C C C C C C C C C	A A M M A A		$\begin{array}{c} 40.18 \pm 0.3 \\ 40.16 \pm 3 \\ 40.14 \pm 3 \\ 40.14 \pm 3 \end{array}$	B/C B B B	76 64 64 63 63 63	Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes		P P P P	Yes Yes Yes Yes Yes
ALPINE	7294S(C) 7516(C) 7400 7401 7502 7189 7618(RIC) 7392S 7392S 7392S 7392S 7290 7190 7524	550.00 450.00 200.00 240.00 260.00 600.00 380.00 380.00 380.00 320.00 290.00 550.00	25 25 6 6 25 25 10 x 4 8.8 2.2 10 x 4	0.8 0.8 0.8 0.8	P/S P/S P S P/S P/S P/S P/S P/S	222222222222222222222222222222222222222	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	80 80 80 80 80 80 80 80 80 80 80 80 80	60 60 60 60 60 60 60 60 60 65 60 65 60	24 24 18 18 24 24 24 24 24 24 24 24 24 24	C C A A A C C C A A A A A	M M M M M M M M/A M/A M/A	No No No No No No	$\begin{array}{c} 30\mbox{-}22\pm 3\\ 30\mbox{-}20\pm 3\\ 40\mbox{-}18\pm 3\\ 40\mbox{-}18\pm 3\\ 40\mbox{-}18\pm 3\\ 20\mbox{-}22\pm 3\\ 20\mbox{-}22\pm 3\\ 20\mbox{-}22\pm 3\\ 40\mbox{-}18\pm 3\\ 40\mbox{-}18\pm 3\\ 40\mbox{-}18\pm 3\\ 20\mbox{-}22\pm 3\mbox{-}20\mbox{-}21\mbox{-}22\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}21\mbox{-}22\mbox{-}21$	B/C B B B B/C B B/C B B	72 64 55 64 64 55 72 64 64 75 64 55 67	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No Yes Yes	CCDDDCCCCCCC	P P P P P R P R	Dut Dut Dut Dut Dut Dut Dut Dut Dut Dut
ANABA AUDIO	7382 7384 7386	259.00 298.00 399.00	30 30 30	0.01 0.01 0.01	P/S P/S P/S	2222	26.3 26.3 26.3	68 68 68	70 70 70	18 18 18	8 6 8	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		20-18 20-18 20-20	D O	83 83 86	Yes Yes	Yes Yes	C C C	P P	Yes Yes
AUDIOVOX	AV-218 AV-228 AV-238 AV-245 AV-933 AV-949 AV-954 AV-958 AV-958 AV-959 AV-959 AV-959 AV-985 AV-985 AV-985 AV-3000	250.00 299.95 379.00 399.95 199.95 225.00 250.00 299.95 175.00 169.95 99.95	5 20 20 20 5 5 5 5 20 20 20 20 20 5 5 5	10 10 10 10 10 10 10 10 10 10 10 10	S P/S P/S S S S S S S S S S S S S S S S	1 2 5 5 1 1 1 2 2 3 3 1	15 15 13 13 16 15 15 13 13 15 16 16	60 60 65 65 60 60 60 65 65 60 60 60 60	60 60 65 65 60 60 60 60 60 60 60 60 60	24 24 24 24 0 18 18 18 18 18 18 18 0 0		A A A A A A A A A A A A A A A A A A A	No No No No No No No No No No No	20-20 50-10 50-10 50-12 50-10 50-10 50-10 50-10 50-10 50-12 50-10 50-10 50-10	B B B	86 50 60 60 50 50 50 50 50 50 50 50 50 50	Yes No Yes Yes Yes Yes Yes Yes No No No	Yes No No Yes No No Yes No No No No		P P P R	Yes No Dut Dut No No Dut Dut No No No
BLAUPUNKT	Washington(C) Louisville(C)	549.95 399.95	25 x 2, 7.5 x 4 25 x 2,	1	P/S P/S	2	15 15	85 85	70	36	C	M/A	No	30-20 ± 3	B/C D	72	Yes	Yes	C	P/S	Yes
	Santa Fe Cheyenne Daytona Boston	379.95 329.95 259.95 249.95	7.5 x 4 7.5 x 4 7.5 x 4 7.5 x 4 25 x 2, 7.5 x 4	1.0 1.0 1.0 1.0	PS P/S P/S P/S	3 3 3 2	15 15 15 13	85 85 85 70	70 70 70 70 65	24 30 30 30 30	C C C C C C C C	M/A A A A A	No No No No	$30-20 \pm 3$ $30-18 \pm 3$ $30-18 \pm 3$ $30-18 \pm 3$ $40-15 \pm 0.3$	8 8/C 8 0 8	63 72 63 58 63	Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes	D C C C D	S P/S P/S P/S S	Yes Yes Yes Yes Dut
CARRERA	Newport Malibu CS-1000	229.95 219.95	7.5 7.5 x 4 25	1 1.0	P/S P/S	23	13 15	70 85	65 70	24 30	C	A	No No	40-15 ± 0.3 30-18 ± 3	D D	60 58	Yes Yes	Yes No	D C	S S	Dut Yes
CLARIDN	CS-2000	159.95 199.95 299.95	25 25 18 x 4	1	PS P/S	22	17 16.3	65 65 70	60 65	24 24	C	A	No No	40-14 40-15		50 52	Yes	Yes	C C	P	Out Out
	3670RC(C) 3771RC(C) 3970RC(C) 8204R 1400RT 1700RT 8430R 9731RT 9731RT 1470R 9470R 9470R 9470R 11770R 1770RT 2001RT 2002RT	349.95 589.95 129.95 149.95 149.95 249.95 249.95 219.95 289.95 269.95 239.95 319.95	18 x 4 10 x 4 5 x 4 18 x 4 5 x 4 15 x 4 15 x 4 15 x 4 15 x 4 15 x 4 15 x 4 18 x 4 12 x 2, 6 x 4	1 1 1 1 1 1 1 1 1 1	P/S P/S P/S P/S S P/S P/S P/S P/S	2 2 3 1 2 2 2 2	12 17 12 12 12 12 12 12 12 12 12	70 70 70 70 70 70 70 70 70 70		20 20 20 18 18 18 18 18 18 18 15 15 20 12 12	000000000000000000000000000000000000000	A A A A A M A A A	No No No No No No No No	$\begin{array}{l} 30 \cdot 16 \\ 30 \cdot 20 \\ \pm 3 \\ 40 \cdot 14 \\ 40 \cdot 14 \\ 30 \cdot 16 \\ 40 \cdot 14 \\ 30 \cdot 16 \\ 30 \cdot 18 \\ 30 \cdot 18 \\ 30 \cdot 16 \end{array}$	8 8 8/C 8 8 8	66 66 74 53 56 53 66 53 66 56 56 56 56	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No Yes No No Yes Yes No Yes	000000000000000000000000000000000000000	6 6 6 6 6 6 6 6 6 7 6 7 6 7 7 7 7 7 7 7	Yes Yes Yes Yes Yes No Yes Yes Yes Yes
COUSTIC	RX-739 RX-737	279.95 249.95	15 x 2, 5 x 4 15 x 2,	0.09 0.09	P/S P/S	2 2	17 17	70 70	60 60	30 30	A C	A A	No No	$30-18 \pm 5$ $35-16 \pm 5$	B	60 60	Yes	Yes	C	P	Yes
	RX-730 RX-713 RX-712 RX-703	199.95 199.95 179.95 149.95	5 x 4 5 x 4 15 15 5	0.09 0.09 0.09 0.09 0.09	P/S P S P/S S	2 2 2 2 2 2	17 17 17 17 17	70 70 70 70 70	60 60 60 60	30 30 30 30 30	A	A A A A A A A A A A A A A A A A A A A	No No No No	$35-16 \pm 5$ $35-16 \pm 5$ $30-18 \pm 5$ $35-16 \pm 5$ $35-16 \pm 5$	B	50 50 60 50 50	Yes Yes Yes Yes Yes		C C D D D	Ρ	Dut Yes Dut
CRAIG	AG5030 AG5040 AG6830 AG6840 AG1110 T862 AR8842 AR8841 AG6820 AG6810 AG6810 AG6810 AG6810 AG6810 AG702A AG701AS AG120A AR7043 AR7043	160.00 180.00 180.00 230.00 230.00 280.00 250.00 130.00 90.00 70.00 250.00 230.00 230.00	4 4 4 12 15 12 12 4 4 4 4 4 15 15	55555555555555555555555555555555555555	S S S S S S S S S S S S S S S S S S S	1 1 1 2 3 5 2 2 1 1 1 2 3 2	22.1 22.1 22.1 22.1 24.3 20.8 22.1 22.1 22.1 24.3 24.3 24.3 24.3 24.3 24.3 24.3 22.1 22.1 22.1	60 60 60 60 60 60 60 60 60 60 60 60 60 6	60 60 60 60 60 60 60 60 60 60 60 60 60	18 18 18 18 18 18 18		A A A A M M A A M A A M A A A A A A A A		10 10 63-10 63-10 63-10 63-10 63-10 60-10 100-8 60-10 100-8 63-10 63-10 63-10 63-10 63-10 63-10 63-10 63-10 63-10 63-10 63-10 63-10 63-10	B B No No No B No	50 50 50 50 50 55 55 50 50 50 50 50 50 5	No Yes No Yes Yes Yes Yes No No Yes Yes Yes	No No No Yes Yes No No No No Yes No	000000000000000000000000000000000000000	P P P P	No No Yes No Yes Yes Yes No No No No No Yes

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generation ahead of anything you've heard before.

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RADIOS/TAPE PLAYERS

NR Code A = dbx		7		7		7 7	/ AMI	PLIF	IER		7	lass i	T			7			T/	NPE	/
B = Dolby B C = Oolby C O = DNR D = Other		(0 (0	to the	/		/.	5) CA-490	/*	./.	1	80	$\left \right $		and (C)	7	<u> </u>	/	Course	7	77	²¹ (er (8)
MANUFACTURER	USA-01 USA-01 USA-01 USA-01 USA-01 USA-01 USA-01 USA-01	tice Control	and the second second	The Cit wants	Output Rated Outro	reampered and and and and and and and and and an	eater	01-10 Usable 50000	emale Char HOOMIN	Tons Mono SW Selection	al Number - 18	Land Seat (1) Sallon Pres	mine Scan (B)			e-Aeduction	Circuit?	t.Werghied	Puran Scarchs	Then Participation of the State	A Permission Providence (1)
CUSTOM AUTOSOUND	USA-01 USA-02 USA-03	209.00 149.00 179.00	$\frac{3 \times 4}{7}$	1	S	2	19.5 20.8	25 20	50 40	12 0	C	M	No No	40-18	/ 2 °	45	Yes	No No	ō	2 / 10 de o	No
OENON	USA-04 DCR-5470	269.00	10 x 4	i	S P P/S	22	20.8 19.5 14.8	20 25 70	40 50 60	0 24 24	C C	M	No No	40-15 40-18	D	45 45	Yes Yes	No		-	No Yes
	DCR-5490(C) DCR-7290(C) DCR-5390	400.00 350.00 300.00	10 x 4 18 x 4 18 x 2, 8 x 4		P/S P PS	222	14.8 14.8 14.8	100 100 100	70 70 70 70	24 24 24 24	CCC	M M M	No No No No	30-18 ± 3 40-16 ± 3 40-16 ± 3 40-16 ± 3	8/C 8 8 8 8	72 62 62 62	Yes Yes Yes Yes	Yes Yes	C C C C	P P P	Dut Dut Dut Dut
	DCR-5170 DCR-4270 DCR-4170	230.00 300.00 230.00	14 x 2, 8 x 4 18 x 2, 10 x 4 14 x 2, 8 x 4		P/S P/S P/S	2 2 2	14.8 14.8 14.8	70 70 70	60 60 60	24 24 24	A A A	M M M	No No No	40-16 ± 3 40-16 ± 3 40-16 ± 3	8	52 62 52	Yes Yes Yes	Yes	C		Dut Yes Dut
ECLIPSE	EQZ-301(C) EQZ-303(C) ECE-302	599.95 499.95 380.00	12 x 4	0.8	P P P/S	2 2 2	12 12 17			24 24 24	A A A	M M M	No No No	20-22 20-19 30-16	B/C B B	76 69 67	Yes Yes Yes	Yes	C C C	P	Yes Yes Yes
FAS	DAR50 DAR40 DAR25 DAR45 DAR5		25 x 4 25 x 4 25 x 4 4 x 4 4		P/S P/S P/S P S S	2 2 2 2 1	17.2 17.2 17.2 19.2 19.2			24 12 12 12 12	A A A C	A A A M	No No No No	40-15 ±3 50-12.5 ±3 50-11 ±3 50-13.5 ±3 50-10.5 ±3	8	60 60 50 55 50	Yes Yes Yes Yes No	Yes Yes No	<u> </u>	P	Yes No No No No
FULTRDN	16-8900 16-8800 16-8500 16-8300 16-8300 16-6900 16-6900 16-6500 16-5500	249.95 229.95 209.95 179.95 189.95 229.95 179.95 149.95 59.95	12 x 4 12 x 4 12.5 x 4 6 x 4 6 x 4 12.5 x 4 6 x 4 6 x 4 6 x 4 3	0.8 0.8 3 3 3 3 3 3 3 3 3 3 3 3 3	P/S P/S P/S P/S P/S S S	2 2 2 2 1 2 2 1 2 1 1	10 10 8 8 8 8 8 8 8 8 8 8 8	25 25 25	60 60 59 58 66 59 62 45 50	24 24 18 24 18 18 18 18 18 0	000000000000000000000000000000000000000	A A A A M A M	No No No No No No No	40-15 40-15 30-17 40-14 60-12 60-16 60-12 60-15 50-12	D No No No D	55 55 56 54 52 52 52 52 52 52 65	Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes No No Yes No	000000000000000000000000000000000000000	P P	Yes Yes Yes Yes Yes Yes Yes No No
JENSEN	CS 1100 CS 5500 JS 9300 JS 9400 JS 9100 JS 6123 JS 6223	130.00 259.95 299.95 319.95 235.00 150.00 190.00	5 30 15 x 4 15 5 5	5 5 5 5 5 5 5 2.5	S S P/S P S	1 5 5 5 5 2 2	20 16 16 16 16 16 16	65 61 61 61	68	18 18 24 30 24 24 24	B C B A B B	M A A A M M	No	$50 \cdot 12$ $50 \cdot 15 \pm 3$ $40 \cdot 15 \pm 3$ $50 \cdot 15 \pm 3$ $40 \cdot 15$ $50 \cdot 15$ $50 \cdot 15$ $50 \cdot 15$	No B D D	55 55 55 55	Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes	D	P P	No Yes Yes Yes Yes Yes
JAC	KS-CG10(RIC) KS-RG8(C) KS-RG7(C)	599.95 429.95 369.95	3 x 2, 12 x 2 3 x 2, 8 x 2	0.8	P PS P/S	2 2 2	12.1 12.1 12.1			24 24 24	C C C	M		$\begin{array}{r} 40-20 \pm 3 \\ 40-20 \pm 3 \\ 50-18 \pm 3 \end{array}$	B/C B B	68 60 60	Yes Yes Yes	Yes Yes Yes		R R R	152
	KS-RX770(C) KS-RX750 KS-R570 KS-R470 KS-R470 KS-RX710	299.95 249.95 199.95 189.95 479.95	8 3 x 2, 8 x 2 3 3 12	0.8 0.8 0.8 0.8 0.8 0.8	P/S P/S S S	2225	13.5 15.3 15.3 15.3 16.3			24 20 20 20 20	C C C B	м		$50-16 \pm 3 50-14 \pm 3 50-13 \pm 3 50-13 \pm 3 40-15 \pm 3$	B B No B	60 60 52 52 60	Yes Yes Yes Yes Yes	Yes		P P P	
	KS-RX175 KS-R155 KS-R135 KS-R125 KS-RX835(with CD)	249.95 219.95 169.95 149.95 799.95	3 x 2, 8 x 2 3 3 3 3 x 2, 8 x 2	0.8 0.8 0.8 0.8 0.8 0.8	P/S S S P/S	2 2 1 2	16.3 17.2 17.2 17.2 12.1			20 20 20 20 24	C C C C C C			$50-16 \pm 3$ $50-13 \pm 3$ $50-13 \pm 3$ $50-13 \pm 3$ $50-13 \pm 3$ 40-20	B No No B	60 60 52 52 60	Yes Yes Yes Yes Yes	Yes Yes			
KAWASAKI	KR-115 KR-140 KR-146 KR-170 KR-180 KR-260 KR-262	115.00 175.00 200.00 255.00 359.00 479.00 479.00	6 6 12.5 x 4 12.5 x 4 12.5 x 4 12.5 x 4	0.3 0.3 1.5 1.5 1.5 1.5	S S P/S P/S P/S P/S	1 1 3 2 2 2 2	15 15 15 10 10 10	30 30 30 30 30 30 30 30	63 63 60 60 60 60 60	24 24 24 24	A A C C	A M A A A A	No No No No	$\begin{array}{c} 50.12 \pm 2\\ 50.12 \pm 2\\ 50.12 \pm 2\\ 50.15 \pm 2\\ \end{array}$		57 57 57 50 50 50 50 50	No No No Yes Yes Yes	No No No Yes	D D D D D C B		Dut Dut Dut Dut Dut
KENWDOD	KRC-940 KRC-740 KRC-740 KRC-640 KRC-640 KRC-440 KRC-340 KRC-340 KRC-240 KRC-140 KRC-3005 KRC-1005	599.00 459.00 399.00 299.00 299.00 259.00 229.00 199.00 249.00 199.00 179.00	15 15 15 15 15 4 15 15 15 15 15 4 4	1 1 1 1 1 1 1 1 1	P P/S P/S P/S P/S S S S S S	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12 12 12 12 12 12 12 12 12 13.2 13.2 13.	100 100 100 100 100 100 100 100 75 75 75 75	73 73 73 73 73 73 73 73 73 70 70 70	24 24 24 24 24 24 24 24 18 18 18 18			No No No No No No No No No No No No	30-21 30-20 30-18 30-16 30-16 30-16 30-16 30-16 30-14 30-14 30-14 30-14 30-14 30-14	B/C 8 8 8 8	73 65 71 63 54 63 54 54 63 54 54 54	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes No No No No No No No		R P R P P P P P	Dut Dut Out Out Out Out Out Out Out Out Out O
KRACD (Continued)	KF-1109 KF-1105 KF-1104 KWE-646 KWE-545 ETR-1080 ETR-1079	299.95 270.95 246.95 246.95 221.95 189.95 169.95	15 15 15 5 5 5 5	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	P/S S S S S S S	2 3 2 1 1 3 1	9 9 10 10 9 10	55 53 53 53 53 53 53 53	60 60 58 58 58 58 58 55	30 18 24 18 18 18 18	CCCAACA	A A A A M A	No No No No No No	$\begin{array}{c} 60-15 \pm 3\\ 60-15 \pm 3\\ 50-15 \pm 3\\ 70-15 \pm 3\\ \end{array}$	B	60 60 55 55 55 60 55	Yes Yes Yes Yes Yes No No	Yes No No No No No No	C C C C C C D D D D D	P P P	Yes No No No No No No

AUDIO/MAY 1992

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NR Code A = dbx B = Dolby B C = Dolby C D = DNR O = Other	/	^c D _{the}	uger .	 	/	Der Eis	AMP		7			- Train		JNER	7	L		e Code	7	PE	a ⁿ rsier (B).
MANUFACTURER	100-600	Price S United in	Average w.	THO	Output 1.	All Colored Color	oster.	Aller 30 08 5 500	(W - Change Change	Talano SM P. Selectivity	Tuni Mumber of 0	A nollen (N) Seek (N)	in de	Frequences Community and a	Moles - all re	Tape S. Hoducilon	Auro A Para Circuito San	Proc Reverses Heren	Fit Search?	The rate of the second	Real Internation Internation
KRACO (Continued)	LED-600 KID-588 KGE-601 KID-581	129.95 116.95 92.95 69.95	5 5 5 5	3.0 3.0 3.0 3.0 3.0	S S S	3131	9 10 10 10	53 50 50 50	55 55 55 55	0 0 0		M M A	No No No	70-15 ±3 70-12 ±3 70-12 ±3 70-12 ±3		55 55 50 50	No Yes No No	No No No No	D D D D		No No No No
L.A. SOUND	LA 740D LA 735 LA 735 LA 735 LA 545 LA 545 LA 545 LA 528 LA 528 LA 525 LA 325 LA 325 LA 228 LA 218 LA 118 LA 108 LA 1502CD(C) LA 1502CD(C)	249.00 249.00 199.00 189.00 149.00 249.00 249.00 219.00 149.00 199.00 149.00 79.00 79.00 39.00 249.00 249.00	14 14 14 14 14 14 14 14 14 14 7 7 7 7 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P/S P/S P/S P/S P/S P/S P/S P/S P/S P/S	25222323221112222			55 55 55 55 55 55 55 55 55 55 55 55 55	24 18 18 24 30 30 18 24 18 24 18 18 18 24 18 24 24 24 24 24		A A A A A A A A A A A A A A A A A A A	No No No No No No No No No No No No	$\begin{array}{c} 30-15 \pm 3\\ 30-1$	B		Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No No No No No No No No Yes No	000000000000000000000000000000000000000	P P P P P P P P P P P P P P P P P P P	Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
MAJESTIC	MCR9135 MCR9040 MCR9139 MCR9139 MCR1700AN MCR1700AN MCR1100 MCR1100F MCR1500BT MCR84-400 MCR4650HP MCR4650HP MCR4650HP	150.00 160.00 180.00 129.95 179.95 89.95 129.95 139.95 139.95 189.95 219.95	5 x 4 5 x 4 5 x 4 5 x 4 6 6 6 6 15 15 5.5 x 2, 4 x 4	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	P/S P/S P/S S S S S S S S S S S S S S S	3333121122252	10 10 10 10 10 10 10		60 60 60 60 60 60 60 60 60 55 55 65	18 18 0 10 0 0 0 12 12 24		A A M M M M M M M M	NO NO NO NO NO NO NO NO	60-12 60-12 60-12 50-10 50-10 50-10 50-10 50-10 50-10 50-10 50-10 50-10 50-10 50-13 50-14	в	50 50 50 50 50 55 50 55	No Yes Yes Yes Yes No Yes Yes Yes Yes	No No No No No No Yes No Yes	000000000000000000000000000000000000000	Ρ	Yes Yes Yes No Yes No No Yes Yes Yes
	MCR90-202HP MCR90-303HP MCR3400 MCR3500 MCR3900A MCR3600 MCR90-404HP MCR90-630	249.95 229.95 149.95 169.95 169.95 259.95 229.95	15 x 2, 9 x 4 15 x 2, 9 x 4 6 6 6 6 6 15 x 2, 9 x 4 6 6 6 4.5 x 2, 9 x 4 3.5 x 4	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	P/S P/S P/S P/S P/S P/S P/S P/S	2 2 1 1 2 2 2 2	14 16 10 10 6 16 16		65 50 60 60 60 50 50	24 24 18 12 12 18 24 18	с с с с с с с	M M M A M M	No No No No No No	50-14 50-10 50-10 50-10 50-10 50-10 50-14 50-14	B	60 50 55 55 50 55 60 50	Yes Yes No Yes Yes Yes Yes	Yes No No No Yes No	C D D D D D D C	Ρ	Yes Yes Yes Yes Yes Yes Yes
	MCR90-707HP MCR90-909HP	279.95 299.95	15 x 2, 9 x 4 15 x 2, 9 x 4	0.5 0.5	P/S P/S	5 2	16 16		50 50	24 24	C C	M M	No No	50-14 50-14	в	50 60	Yes Yes	Yes Yes		P	Yes Yes
MAXITRON	MCR-2100 MCR-2300 MCR-2500 MCR-2700	148.95 206.95 229.95 244.95	8 25 25 7 x 2. 25 x 2	0.5 0.5 0.5 0.5	P/S P'S P S P S	2 2 5 2	12 12 12 12 12	65 65 65 65	62 62 62 62	18 24 24 24	C C C C	A A A	No No No No	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	No No No No	60 65 65 65	Yes Yes Yes Yes	No No No	С С С С	P P P	Yes Yes Yes Yes
MEI	CX2850 CX2830 CX2820 CX2810 CX2770 CX2610 CX2610 CX2450 CX2250 CX2170 CX150	189.95 199.95 184.95 159.95 179.95 164.95 139.95 129.95 124.95 49.95	12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	P'S PS PS PS P/S S S S	2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 1 2 1	16 16 15 5 16 15 5 15 5 15 5 15 5	54 54 50 54 50 48 50	40 55 60 55 61 60 62 62 60 40	30 24 24 24 24 24 24 12 12 24	B C C C C A A C	M M M M M	No No No No No No No No	$\begin{array}{c} 30\mbox{-}17\pm 0.3\\ 25\mbox{-}15\pm 3\\ 40\mbox{-}16\pm 3\\ 30\mbox{-}12\pm 0.3\\ 30\mbox{-}12\pm 0.3\\ 30\mbox{-}15\pm 0.3\\ 50\mbox{-}15\pm 0.3\\ 25\mbox{-}15\pm 0.3\\ 80\mbox{-}8\pm 0.3\\ \end{array}$	B B D O O	54 50 50 50 50 50 48 46 45 40	Yes Yes Yes Yes Yes Yes Yes Yes	Yes No Yes No	C C D C D C D C D C D C C D C C	P P P P	Yes Out Out Yes Yes No No
METROSOUND	MXD 750ATi MXD 750ATi MXD 590ATi MXD 670ATi MXD 670ATi MXD 510AT MXD 510AT MXD 510AT MXD 505 MX 665i MX 605 MX 660i MX 600 MX 520 MX 520 MX 215	320.00 270.00 250.00 250.00 150.00 150.00 150.00 120.00 170.00 190.00 140.00 120.00 140.00 80.00	14 14 14 14 14 5 14 5 14 5 14 5 14 5 5 5	10 10 10 10 10 10 10 1 10 1 10 1 10 1	P/S P/S P/S P/S P/S P/S P/S P/S P/S P/S	222222222222222222222222222222222222222			55 55 55 55 55 55 55 55 55 55 55 55 55	30 30 30 18 18 12 12 12 12 18 18 18 18 18 18	A C C C C C C A A A A A A	M A A A A A A A A A A A A A A A A A A A	No No No No No No No No No No No No		B D D D		Yes Yes Yes Yes No Yes Yes Yes No No Yes	Yes Yes No No No Yes No No No No	000000000000000000000000000000000000000	P P P P	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
MOBILE AUTHORITY	81zx 83zx 87zx(RI)	339.95 379.95 399.95	25 25 40 x 4	0.03 0.03 0.02	P/S P/S P S	2 2 5	24 24 24	65 65 65	67 67 67	18 24 24	C C C	M A M	No No No	20-20 20-20 20-20	D B B	85 85 85	Yes Yes Yes	No Yes Yes	C C C	P P P	Yes Yes Yes
MXD 640AT 170.00 5 1 PS 2 55 18 C A No No No C P Yes No C													8								

AUDIO/MAY 1992

RADIOS/TAPE PLAYERS

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NR Code A = dbx							AMF	PLIF	IER				T	UNER		/			T/	APE	
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	(notes)	Contro	/	Construction		*** **	E E	Alle 30 Usable S. Controls		electi	8	non 9	e) ues	Trans Connection International		/	ciim:	olo med	/ /	3	Wey Si
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	Henne Henne	· / .			Beleo	20	:/ <u>»</u> /	300	100	150	in de	200	S.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	e /	edici	0110	Reverses	2	100	
MANUFACTURER	C.C. B.	in the second	Aunique M.		Output , Halled Ou		and a second	0/	ella.	0.								\$ 	Elican S		PCA IN COM
NAKAMICHI	Mobile Tuner	830.00			/ •	2	17	14	60	18	I .			20-20 ± 3						-	·/ «
	Deck 1(RIC) (†See "Amps")	000.00	l' .	'		 ^	1			10	A	^	No	20-20 ±3	B/C	70	Yes	Yes	C	R	Yes
	Mobile Tuner Deck 2(C)	630.00	t	1	+	2	17		60	18	A	A	No	20-18	B/C	70	Yes	Yes	C	R	Yes
	(†See "Amps") Mobile Tuner	430.00	t	t	+	2	17		60	18		м	No	20-16	B	64	Yes	Yes	c	R	Yes
	Deck 3 (†See ''Amps'')																				
OPTIMUS	12-1944 12-1938	199.95	22		S			\square		30	A		No	60-14	B		Yes		ç		No
	12-1936	259.95 199.95	15 x 4 14 x 4		S S	3 3				30 12	Å	^	No No	50-15 50-15	8 8		Yes Yes		C D		No No
PANASONIC	CQ-080	339.00	15 x 4, 25 x 2				15.2	75	70	24	C			30-15 ±3	B	62	Yes	Yes	C	R	Yes
	CQ-D55 CQ-D50	309.00	15 x 4, 25 x 2				15.2	75	70	24	C			30-15 ± 3		52	Yes	No	C	P	Yes
	CQ-J01	249.00 174.00	15 x 4, 25 x 2 7.5				15.2	75	70 70	24 18	C			30-15 ± 3		52	Yes		C	P	Yes
	CQ-ID60 CQ-V15	379.00	22 x 4 22 x 4				13.2	75 75 75 75 75 75 75 75 75	70 70 70	24 24 24	A			30-15 ±3 35-20 ±3 35-17 ±3	B	52 62 62	Yes Yes Yes		C C C	Р	Yes Yes Yes
	CQ-V10 CQ-8580	299.00 259.00	22 x 4 20				13.2	75	70 70	24	Â	Â		35-17 ±3 35-17 ±3	B	62 62	Yes	Yes	č	P	Yes
	CO-8560 CO-8530	229.00 209.00	7.5 20				15.2 15.2	75 75	70 70	15 15	A	Å		$35-17 \pm 3$ $35-16 \pm 3$	B	62 52	Yes	Yes	Ď		Yes
	CQ-8520 CQ-8510	169.00 149.00	7.5 7.5				15.2 15.2	75 75	70 70	15 15	Å	Â		35.12.5 ± 3 35.12.5 ± 3		52 52	Yes Yes	No No	D D		No No
PHILIPS	DC520 DC630	259.00 388.00	8 x 4 25 x 2	0.009	P/S P/S	22				30 15	CA	M	No No	35-18 35-18	B	58 58	Yes Yes	No No	C	P	Opt.
			(25 x 4 Opt.)			 								30-10		30	103				
	DC640 DC777	455.00 599.00	25 x 4 25 x 2,	0.009	P/S P/S	22				15 30	Å		No No	35-18 35-18	8	58 58	Yes Yes	Yes No			
PIONEER	KEH-M5500(C)	360.00	8 x 4 25 x 2,		P/S	2		70		24	C	M	No		8		Yes	Yes	c	R	Yes
	KEH-M4500(C)	330.00	15 x 4 25 x 2,		P/S	2	11	70		24	C	M	No				Yes	No	c	R	Yes
	KEH-M7300TR(C)	450.00	15 x 4 25 x 2,		P/S	2	11	70		24	C	M	No	40-17 ±3	в	63	Yes	No	c	R	Yes
	KEH-3200QR	295.00	15 x 4 25 x 2,		P/S	2	11	70		24	C	м	No	40-17 ± 3	в	63	Yes	No	c	R	Yes
	KEH-2200QR	245.00	15 x 4 25 x 2, 15 x 4		P/S	2	11	70		24	C	M	No	40-14 ±3		52	Yes	No	c	R	Yes
	KEH-6969	270.00	25 x 2, 15 x 4		P/S	2	11	70		24	C	м	No	40-17 ± 3	B	63	Yes	No	c	R	Yes
	KEH-4949	220.00	25 x 2, 15 x 4		P/S	2	11	70		24	C	M	No	40-14 ± 3		52	Yes	No	C	R	Yes
	KEH-M6200(C) KEH-M8200(RIC)	370.00 510.00	25 25	0.05	P/S P/S	23	11	70 70	70 70	24 24	C	Å	No No	40-14 ± 3 30-19 ± 3	ç	52 71	Yes Yes	No Yes	C	R	Yes Yes
	KEH-M7200(C) KEH-5200 KE-3700QR	410.00 360.00 275.00	25 25 8 5 x 2	0.05	P/S P/S P/S	22		70	70 70 70	24 24	C		NO NO	40-17 ± 3 40-17 ± 3	B B	63 63	Yes	Yes	C C C	R	Yes
	KE-3700QR	215.00	8.5 x 2, 7 x 4 8.5 x 2,	0.05	P/S P/S	2	11	70 70	70 70	24 24	C C	A	No No	$50-17 \pm 3$ $50-14 \pm 3$	6	60 52	Yes	Yes	C C	P	Yes
	KE-1700QR	225.00	7 x 4 8.5 x 2,	0.05	P/S	2	11	70	70	24	C	Â	No	$50-14 \pm 3$ 50-14 ± 3		52	Yes	Yes	c	P	Yes
	KEH-9898TR	340.00	7 x 4 25 x 2,	0.3	P/S	2	11	70	70	24	c	A	No	40-17 ± 3	в	66	Yes	Yes	0		Yes
	KE-4848	245.00	15 x 4 8.5 x 2,	0.3	P/S	2	11	70	70	24	C	A	No	50-17 ± 3	B	63	Yes	Yes	D		Yes
	KE-3838	195.00	7 x 4 8.5 x 2, 7 x 4	0.3	P/S	2	11	70	70	24	C	A	No	50-14 ±3		52	Yes	No	D		Yes
	KE-2828	175.00	8.5	0.3	S	1	11	70	70	24	C	M	No	50-14 ±3		52	Yes	No	D		No
PREMIER	KEX-M900(RIC) KEX-M850(RIC)	1200.00 650.00	25	0.07	P	12	7	70 70	70	24 24	C	A M	No No	30-18 ± 3 25-22 ± 3	B/C B/C	71 73	Yes Yes	Yes	C	R	Yes Yes
	KEH-M650(RIC) KEH-M580(C)	520.00 370.00	25 25 x 2, 15 x 4	0.05	P/S P/S	32		70 70	70	24 24	C	M	No No	30-22 ± 3	B∕C B	71	Yes	Yes	C C	R	Yes Yes
	KEH-M550(C) KEH-3800R	420.00 260.00	15 x 4 25 25 x 2,	0.05	P/S P/S	2	11	70 70	70	24 24	C	A	No No	40-20 ± 3 40-14 ± 3	B	63 52	Yes	Yes	c	R	Yes Yes
	KE-450QR	285.00	15 x 4 8.5 x 2,	0.05	P/S	2	11	70	70	24	c		No	40-14 ± 3 50-20 ± 3	B	60	Yes	Yes	c	P	Yes
	KE-350	255.00	7 x 4 8.5 x 2,	0.05	P/S	2	11	70	70	24	c	Å	No	50-20 ± 3	B	60	Yes	Yes	D		Yes
	KE-250	215.00	7 x 4 8.5 x 2,	0.05	P/S	2	11	70	70	24	C	M	No	50-14 ± 3		52	Yes	Yes	D		Yes
PRESTIGE	P-35	164.95	7 x 4 7 x 4	1	S	1	11	74	70	24	C	M	No	50-10 ± 3	-	50	-	-	c	P	
	P-45 P-55	249.95 299.95	7 x 4 25 x 2.	1	P/S P/S	22	11	74 74 74	70 70	24 24	Č	M	No No	50-12 ± 3 30-15 ± 3	8	52 60	Yes Yes	Yes	C C	P	Yes Yes
(Continued)	P-65(RI)	324.95	7 x 2 25 x 2,	1	P/S	2	11	74	70	24	c	м	No	30-15 ± 3	в	60	Yes	Yes	C	Р	Yes
			7 x 2																		

		R	2AC) (03	3/	T/	łF	PE	-	P	L	١	'ERS)						
NR Code A = dbx B = Dolby B C = Dolby C D = DNR D = Dther			-ale-	7	f	Der Ere	AMP	/	7		7	7	7	JNER	7	Ζ		Code	7	PE	er (8)
MANUFACTURER	рани страници страни	Frie, S Williamon	Aurope W.	THO CH-490 Channel	Duput 1. Bull Duput	Aurona (P)	or Es	Allow - 30 18 Presson Controls	Fig. 5. Change A) + Official	Total St A.Salecium	Tumber of C. C.	Local C. Soot (A).	All C. Canada .	Found Comments	Moles	Page 5.1 coulding	Auro 1 Auro Circuit See	Pro Reverses Herena C	Fil. Chan Search?	Then Provident Clear A	Part Control Control Control (D) Parter (B). Part Control Control (D) Parter (B). Part During (D). Part During (D).
PRESTIGE (Continued)	P-10 P-20 P-30	124.95 154.95 189.95	7 7 25	1 1 1	S P/S P/S	1 2 2	16 11 11	65 74 74	70 70 70	18 18 18	C C C	M M M	No No No	50-10 ±3 50-10 ±3 50-12 ±3	в	50 50 52	Yes Yes	Yes	D D D		Yes Yes
PROFILE	DN570 DN522 DN520 DN514 DN510 DN500 DN934 DN932 CS909 CS907	230.00 180.00 170.00 152.00 140.00 120.00 220.00 180.00 180.00 150.00	25 25 6 6 6 25 6 25 6 25 6	10 10 5 5 5 5 10 5 10 5	P/S P S P S S S P/S P/S P/S	22221122221		65 65 65 65 65 65 65 65 65 65	70 68 68 68 68 68 68 68 68 68 68	30 24 24 12 12 30 30 30 30	000400000	M M M M M M M	No No No No No No No	$\begin{array}{c} 30.16 \pm 3 \\ 40.16 \pm 3 \end{array}$	B		Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No No No No Yes No No	00000000000000	P P P R R	Yes Out Yes Out Yes Yes Out Out
	CS905 CS803 CS801 EX5100	120.00 90.00 55.00 38.00	6 6 6	5 5 5 5	P/\$ S S S	1 1 1		65 65 65 65 65 65 65 60	68 68 68 65	18	C	M M M M	No No No	40-16 ± 3 40-16 ± 3 40-16 ± 3 60-14 ± 3			No Yes No No	No No No	D D D D		Out
PROTON	CV-760 CV-460 CV-262 CV-260	399.00 329.00 279.00 249.00	16 9 9 9	0.8 0.8 0.8 0.8 0.8	P/S P/S P/S P/S	2 2 2 2		60 60 60 60	62 62 62 62	24 18 18 18	CCCC	M M M	No No No	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	B/C B B	70 70 70 60	Yes Yes Yes Yes	Yes Yes Yes Yes	0000	P	Yes Yes Yes Yes
RADION	D-1010 D-1600 D-1800 D-2000A D-2700A D-3300 D-3700 D-3800A O-6800	50.00 90.00 102.00 140.00 200.00 170.00 230.00 230.00 350.00	40 40 15 15 35 15 15 15 35 15 x 2, 35 x 2	3 3 2 1 1 1 1 0.75	P P P P	1 1 1 2 2 2 2 2 2				18 18 24 30 24	A C C C C C	A A A A A A A M		$\begin{array}{c} 30 - 15.5 \pm 3\\ 32 - 16.5 \pm 3\\ 28 - 15.5 \pm 3\\ 30 - 16.5 \pm 3\\ 30 - 16.5 \pm 3\\ 29 - 15.5 \pm 3\\ 20 - 18 \pm 3\\ 30 - 16.5 \pm 3\\ 28 - 17.5 \pm 3 \end{array}$	B/C		No Yes Yes No Yes Yes Yes Yes	Yes	-	P P P	Dut Dut Dut Out Out Out
REALISTIC	12-1945 12-1946 12-1947 12-1947 12-1942 12-1942 12-1948 12-1948 12-1943 12-1943 12-1939	179.95 149.95 99.95 159.95 149.95 149.95 119.95 139.95 129.95	15 14 5 7 x 4 15 x 4 4 x 4 4 x 4 14 x 4		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				30 30 18 18 30 30 12 12	*******	A A A A	No No No No No No No	60-14 60-14 50-10 14-60 50-10 50-10 125-12.5 50-15 50-15 50-15			Yes Yes No Yes Yes No Yes No	No No No No No No No	0000000000		No No No No No No No No
ROADMASTER	RS 1200 RS 1500 RS 1600C RS 1800C RS 2040C	90.00 100.00 150.00 150.00 150.00	5 5 5 5 5	1 1 1 1	55555	1 1 3	13 13 13 13 13 13	55 55 55 55 55	60 60 60 60 60			M M M	No No No No	30-18 30-18 30-18 30-18 30-18 25-19		70 70 70 70 70	No No No Yes	No No No	D D D O D		No No No No
ROCKSTAR	RST-511(C) RST-499(C) RST-455(C) RST-422(C)	165.00 156.00 128.00 112.00	25 25 8 8	0.003 0.003 0.003 0.003 0.003	P 'S P S P/S P/S	2 2 2 2 2	23.2 23.2 23.2 23.2 23.2	65 65 65 65	65 65 65 65	30 18 18 18	CCCC	A A A	No No No	$\begin{array}{c} 20\text{-}20 \pm 0.3\\ 20\text{-}20 \pm 0.3\\ 20\text{-}20 \pm 0.3\\ 20\text{-}20 \pm 0.3\\ 20\text{-}20 \pm 0.3\end{array}$	B/C No No	80 80 80 80	Yes Yes Yes No	Yes Yes Yes Yes	6 8 6 8	P P P	Yes Yes Yes Yes
SANYD	Voice-2(RIC) MAC4000(RIC) MAR1080 MAR2200A MAR2000A MAR2000A MAR1200 MAR100 MAR1000	1499.99 299.99 149.99 229.99 229.99 189.99 189.99 179.99 159.99 129.99	9.5 x 4 9.5 3 3 3 3 9.5 3 3 3	0.1 0.1 0.03 0.03 0.03 0.03 0.01 0.05 0.05	P/S P/S P/S P S P S P S P S S	2 2 1 2 2 2 1 1 1	12 25 17 17 17 17 17 17 17 17	65 65 65 65 65 65 65 65 65	60 60 50 52 50 52 52 52 52 50 50	6 30 24 24 24 24 24 24 24 24 24	0 000000000		No No Yes Yes Yes Yes Yes Yes	$\begin{array}{c} 30 - 18 \pm 0.3 \\ 50 - 14 \pm 0.3 \\ 50 - 14 \pm 0.3 \\ 40 - 18 \pm 0.9 \\ 50 - 14 \pm 0.3 \end{array}$	B B B	62 52 50 60 50 50 50 50	Yes Yes Yes Yes Yes Yes Yes Yes	Yes No Yes No No No No	Dbl. Din C C C C C C C D D	P P P	Yes Yes Yes Yes Yes Yes Yes Yes No
SENTREK	SCR 097 SCR 110 SCR 147 SCR 165 SCR 563 SCR 715 SCR 767 SCR 990 SCR 1801 SCR 1902 SCR 1912 SCR 1985	64.95 74.95 104.95 139.95 159.95 159.95 239.95 239.95 249.95 249.95 249.95	4 4 4 4 4 4 4 14 14 14 14	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	S S P/S P/S P/S P/S P/S	1 1 1 2 1 2 2 2 2	17 17 17 17 17 17 17 17 17 17 17 17	60 60 60 60 60 60 60 60 60 60 65	60 60 60 60 60 60 60 60 60 66 66 66 65	18 18 24 18 30 30 24	00000000	M M M M A A M M M A	No No No No No No No No	$\begin{array}{c} 50-12 \pm 3\\ 50-12 \pm 3\\ 50-14 \pm 3\\ 40-16 \end{array}$	B	40 40 40 40 40 40 40 40 40 40 40	No Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No Yes No No No No Yes	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P P R P	No No Yes No No Yes Yes Yes Yes
SHERWOOD	XR-4814(C) XR-3814(C) XR-4437	360.00 300.00 270.00	14 x 4 14 4 x 4, 14 x 2	0.5 0.5 0.5	P S P/S P S	2 2 2	11.2 11.2 11.2	80 80 80	70 70 70	20 20 30	A A C	A A M/A	No No No	30-18 ± 3 30-18 ± 3 20-20 ± 3	B	62 55 62	Yes Yes Yes	Yes Yes Yes	D	R R	Yes Yes Yes
(Continued)	XR-4127 XR-3147 XR-2137 XR-3144P XR-3134 XR-4164P	230.00 190.00 150.00 240.00 210.00 300.00	4 x 4, 14 x 2 4 4 4 4 4 4 4 4 4 4 4 4 x 4, 14 x 2	0.5 0.5 0.5 0.5 0.5 0.5 0.5	P S P/S P/S P/S P/S P/S	2 2 2 2 2 2 3	12.4 12.4 12.8 12.4 12.4 12.4 11.2	80 78 76 78 78 80	70 70 70 70 70 70	30 30 30 30 30 30 30	C C C C C C C C C C C C C C	M/A M/A M/A M/A M/A	No No No No No	$\begin{array}{c} 20 - 20 \pm 3 \\ 20 - 20 \pm 3 \end{array}$	B	55 54 54 55 55 62	Yes Yes No Yes Yes Yes	Yes No No No Yes	D D D C C C	P	Yes Yes No Yes Yes Yes

AUDIO, MAY 1992

		F	RAE)	03	5/	/T/	\ F	2[-	P	L	4Y	'EF	22)						
NR Code A = dbx		/		7		Γ	AMP	LIFI	ER				Ţ	UNER			7			TA	PE	/
B = Dolby B C = Dolby C O = ONR O = Other		14 CO Ch.	Logia	 		Per Er	065. W.	ntrois	j		80 %		i Con	() () () () () () () () () () () () () ((11)	7			ce Code	$\left \right $		Syneaer 181
MANUFACTURER	ина 1000	Price S	Average W.	THO Channel	Output , Maled Output	N. Camp (p)	e ter	Aller 30 Uselle San Controls	Figure Change HD Tally	Tots. Nono S.N. D. Selectivia	Tun. Mumber of 6	Lacure Sant (A) Statuton Proper	Ally Comment Comments	Diore Contraction (m) to	H2 to they Reso	4015 - 208 08.	Per Peduction	And A Rail of Circuit? Se	Pro Reverses 4. Welling	Fil. Search?	The range of the state	RCA Con
SHERWOOD (Continued)	XR-3164P XR-3154	270.00 240.00	4 x 4, 14 x 2 4 x 4, 14 x 2	0.5 0.5	P/S P/S	2 2	12.4 12.4	80 80	70 70	30 30	C C	M/A N/A	No No	20-20 20-20	±3		55 55	Yes Yes	Yes	C C	P	Yes Yes
SONY	XR-6077 XR-6157 XR-6287 XR-5250 XR-5250 XR-5550 XR-7130 XR-U220(C) XR-U220(C) XR-U30(C) XR-U30(ROC) XR-U70(ROC) XC-100(C)	$\begin{array}{c} 150.00\\ 200.00\\ 230.00\\ 230.00\\ 300.00\\ 300.00\\ 330.00\\ 330.00\\ 340.00\\ 400.00\\ 500.00\\ 670.00\\ 330.00 \end{array}$	6 6 12 9 11 11 x 4 11 x 4 11 x 4 11 x 4 11 x 4 11 x 4 20 x 4	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	S P/S P/S P/S P/S P/S P/S P/S P/S	222222222222222222222222222222222222222	13 12.5 12.5 13 12 12 12 12 12 12 12 12 12 12 12 12 12	70 75 75 75 75 75 75 75 75 75 75 75	68 68 68 69 69 69 69 69 69 69 68 68 68 68 68 70 58	24 18 18 24 24 24 24 24 24 24 30 30 18	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	M M M M M M M M M M M M	No No No No No No No No No No No No No	40-15 40-16 30-16 30-16 30-16 30-16 30-18 30-18 30-16 30-18 30-18 30-20		No B No B B/C No B B/C B/C B/C	58 58 55 66 55 66 76 76 76	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes	000000000000000000000000000000000000000	No No P R R R R R R	No Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes
SONY ES	XR-U880(RIC)	650.00			P	2	8	75	69	30	A	M	No	30-20		B/C	76	Yes	Yes	C	R	Yes
SOUND BARRIER	X-59 X-49 X-26 X-21	212.00 190.00 112.00 68.00	35 7 7 7 7		P/S S S S							M	No No No No					Yes Yes Yes No	No No No	C C D D	P	Yes No No No
SOUNDSTREAM	TC303 TC306	299.00 499.00	11 x 2, 4.5 x 4	0.8	P/S P	3	17 17	65 65	70 67	12 12	B C	A M	No No	30-20 : 30-20 :		B/C B/C	68 70	Yes Yes	Yes Yes	C C	P P	Yes Yes
SPARKOMATIC	SR339 SR359 SR3200 SR345 SR37 SR35 SR39 SR333	109.99 149.99 159.99 129.99 69.99 54.99 54.99 79.99 119.99	5 12 5 5 5 4 5	1 1 1 1 1 1	S S S S S S S	1 1 3 1 1 3	20 20 9 18 20 20.8 11.2	55 55 65 45 40	60 60 60 60 50 67 62	18 18 24 18 18	C C A A C	A A A M A	No No No No No No	80-10 : 80-10 : 60-20 : 75-10 : 100-9 : 75-10 : 70-12 :	±3 ±3 ±3 ±3 ±3		50 50 65 35 35 55 55	No Yes No No No Yes No	No No No No No	D O C D D O O D	P	Yes
TARGA	0-604 0-615 0-625 0-705 0-705 0-705 0-715A 0-715A 0-820A Q-830A	150.00 190.00 140.00 200.00 190.00 280.00 240.00 300.00 350.00	15 15 15 15 7 35 15 x 2, 35 x 2, 15 x 2,	2 1 1 0.8 1 0.75 0.75	P P P P P	2 1 1 2 1 2 2 2 2				5 18 30 24 30 24 24	B A A C C C C C	A A A A M A A A M		35-16 30-16 30-16 30-16 30-16 30-16 25-18 30-16 30-16 30-17 5 28-17 5	±3 5±3 5±3 ±3 5±3 5±3	B B/C		No Yes No Yes No Yes Yes Yes	Yes		P P P	Out Out Out Out Out Out Out Out
	R-130 R-160 R-725 R-755	50.00 90.00 230.00 320.00	35 x 2 40 40 15 15 x 2,	3 3 1 0.85	P P	1 1 1 2				24 30	C	A A A A		30-15.5 32-16.5 26-17.5 20-19	5 ±3 5 ±3			No Yes Yes Yes			P P	Out Out
	A-190A A-390A A-640A A-670A A-680A Q-6000 (Q-735C head unit with COC-5 CD changer)	140.00 200.00 200.00 230.00 250.00 699.00	35 x 2 15 15 15 15 35 15 x 2. 35 x 2	2 1 1 1	P P P P	1 2 1 2 2 2				18 18 30 30 24 30	A C C C C C C C	A A A A		28-16.5 30-16.5 30-16.5 30-16.5 28-18	5 ±3 5 ±3 5 ±3	8		No Yes Yes Yes Yes Yes			P P P	Out Out Out Out Out Out
TOSHIBA	TX301 TX401 TX501 TX411 TX511 TX590(RI)	189.95 289.95 279.95 289.95 309.95 799.95	25 25 25 25 25 25 25 x 4	1 1 1 1 1	P/S S P/S P/S P/S P/S	2 2 2 2 7	18 18 18 18 18 18 16	58 58 58 58 58 58 58 65	65 65 65 65 65 65 68	18 12 18 18 18 24	C A C C C C C C		No No No No No	63-10 ± 63-10 ± 63-10 ± 63-10 ± 63-10 ±	±3 ±3 ±3	B B/C	56 56 56 56 66 76	Yes No Yes Yes Yes Yes	No No No No Yes	D C C C C C	P P P	Yes No Yes Yes Yes Yes
	TX560(RI) TX550 TX440 TX512	729.95 539.95 479.95 299.95	Ext. 25 x 4 25 x 4 25 x 4 25 x 2,		P/S P/S P/S P/S	7 2 2 2	16 16 16 17	65 65 65 65	68 68 68 67	24 24 24 24	C C C C	*	No No No No			B/C B/C B/C B	76 76 76 66	Yes Yes Yes Yes	Yes Yes Yes Yes	C C C C	P P P	Yes Yes Yes Yes
	TX502 TX322	159.95 269.95	7 x 2 7 x 4 25		S P/S	22	18 17	58 65	65 67	24 24	C C	M	No No			в	58 66	No Yes	No Yes	C O	Р	No Yes
VECTOR RESEARCH	VM-120P VM-220P	199.95 249.95	20 20	1	P/S P'S	22	16.2 15.5	66 70	66 70	24 24	C C	M		30-16.5 30-17.5		B	54 62	Yes Yes	Yes	C C	P P	Yes Yes
YAMAHA	YCR-440 YCR-525(C)	329.00 399.00	20 x 4 25 x 2,		P/S P/S	33	15.0 15.2	75 75	70 70	24 24	C	MA	No No	35-17 ±	_	B B/C	63 76	Yes	Yes Yes	0 C		Out Yes
	YCR-325	329.00	20 x 4 25 x 2,		P/S	3	16.3	75	70	24	c	Â	No	30-18		B	68	Yes	Yes	c		Out
	YCT-925(C) YCR-340 YCR-240	549.00 269.00 229.00	20 x 4 20 7.5	0.003 1 1	P P S P S	3 2 2	15 15 15	75 75 75	70 70 70	24 15 15	C C C	M M M	No No No	30-15 30-15 30-15		B/C B	76 64 57	Yes Yes Yes	No No No	C D D	P	Out Out Out

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The Windham Hill Retrospe	ctive Series Order Form	QTY The Windham Hill Retrospective Series	Price \$39.98	Total
Name Address City State Zip Davtime Phone		Scott Cossu Nrghtnoise Alex de Grass	\$13.98 \$13.98 \$13.98	
Method of Payment Check or Money Order enclos Mastercard Visa	ed (US Ooliars)	Total price of items *Sales Tax Shipping		\$4 00
Card Number Signature	Exp. ration: Date Print Name	TOTAL To sh pment to the foil wing states please add safes tai state and ' any local) It sh pment is to a state marked		
Mail coupon to A Windham Hill Retrospective	Series	delivery charges as well CA. HY* IL, TX: MD Shipping fee applies to US shipments only. For foreign st please write to us	pping charg	jes

Allow 2.3 weeks for delively. Offer expires September 30, 1992

SPEAKERS

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					San Change Marin	um Power	, Wall , Mellon	/					A State of the second stat	Crimer's	ie) and	/ \$ / /
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MANUFACTURER	Moder	Price S	Price S Internationally	Second II	wanten	in the second	Frequence, Ohns 11						And the second		A CONTRACTOR OF	501004 (189100114)
A/D·S/	3201			50	93	4	2.5k-20k ±3	T			P	/ ~	c	34	Yes	
	300T 220W 310W 320W			50 80 100 100	92 89 92 91	4 4 4 4	$ \begin{array}{r} 2k-20k \pm 3 \\ 120-3 \pm 3 \\ 50-3 \pm 3 \\ 50-2.5 \pm 3 \end{array} $	T W W	4 5¼ 5¼		-		F F F	3/4 2 2 ¹ /2 13/1	Yes Yes Yes	
	220ix 320ix 310ix			80 100	89 91	4	$120-20 \pm 3$ 50-20 ± 3		4 5¼	2 2 2	P	Yes Yes	l f	1% 1%	Yes Yes Yes	†Flush-mount woofer, convertible tweeter. External crossover required. As above.
	420ix 420W SB6			100 150 150 75	92 92 92 90	4 4 4	50-20 ± 3 42-20 ± 3 42-2.5 ± 3 42-150 Hz	W S	5¼ 6½ 6½ 6½	2	P P	Yes Yes	F S	23/8 27/6 27/6	Yes Yes Yes	As above.
	M8SW M10SW S8.2			100 150 100	91 91 90	4 4 4	± 3 30-200 Hz 25-200 Hz 30-200 Hz	5 5 5	8 10 8				F F F	3½ 3% 3½	Yes Yes Yes	Dual voice-colls.
	\$10.2 300i/s 320i/s		360.00 570.00	200 100 100	91 92 91	4	18-200 Hz 50-20 ± 3 50-20 ± 3	S	10 5¼ 5¼	2	P	Yes	F, P F, P	5 1½ 1%	Yes Yes	As above. Tweeter level control. includes separate crossover with tweeter level control.
	200i i.200e L300e S6.2i	170.00	260.00 400.00 510.00	80 60 80 100	88 88 90 92	4 4 4	$\begin{array}{c} 120 \cdot 20 \pm 3 \\ 85 \cdot 20 \pm 3 \\ 68 \cdot 20 \pm 3 \\ 30 \cdot 85 \text{ Hz} \end{array}$	5	4 5 ¹ /4 (2)6 ¹ /2	2 2 2		No No No	P S S F, P	15/8 2 ⁷ /8	Yes Yes Yes Yes	As above; fits 4 x 6-inch holes. Cabinet enclosure. As above.
	S10 SB7	220.00 360.00		150 200	90 90	4	±3 20-85 Hz ±3 30-85 Hz	S S	10 (2)7½				F, S S	31/8	Yes Yes	As above.
	SB10 S8s	470.00 140.00		400 120	90 91	4	± 3 20-85 Hz ± 3 28-85 Hz	S S	(2)10				S	3%	Yes	As above.
ADVENT	4.6i 5.2i		119.00 119.00	60 90	89 90	4	±3 60-23 60-23		4 x 6 5½	2		Na Na	F	1% 1%	No	
	5.7i 4.0i 3.5		139.00 99.00 45.00	90 75 50	91 89 88	4	45-23 65-23 110-18		5½ x 7½ 4 3½	2 2 W 2		No No	F F F	23/8 13/4 13/8	No No No	
AIWA	6.9i 6.5i SC-X6500 SC-X6900		149.00 139.00 109.00	150 125 60	91 91 89	4	40-23 45-23 50-22		6 x 9 6 ¹ /2 6 ¹ /2	2		No No No	F	31/8 21/4 21/4 21/8	No No Yes	
	SC-X5250 SC-X5250 SC-X4600 SC-X4000 SC-X3500		139.00 99.00 99.00 79.00 59.00	100 45 40 40 30	91 90 90 90 89	4 4 4 4	45-21 65-21 65-20 65-20 75-20		6 x 9 5¼ 4 x 6 4 3½	2 2 2		No No No No	F F F	2% 1% 1% 1% 1%	Yes Yes No No No	
ALPHASONIK	D-240 D-250 D-265 W-1030	49.50	69.00 160.00 175.00	50 65 80 200	90 92 92 96	4 4 4	55-22 45-22 35-22 30-4	w	4 5 6½ 10	W 2 2		No No	F F F	2% 2½ 3¾	No No No	
ALPINE	6663 6563 6562	120.00	200.00 180.00 360.00	150 105 150	88 86 87	4 4 4	47-22 70-22 50-22		6½ 5¼ 5¼	2 2 2			F, S F, S F, S	3 2 ¹ /s 2 ¹ /s		
	6081 6366CX 6223CT 6017EX	120.00	190.00 90.00 60.00	300 120 45 90	89 91 90 87	4 4 4	45-2 50-22 70-21 5k-20k	т	6 ¹ /2 4	32			S F, S S	2 ¹ /8 13/4		For Toyotas.
	6259EU 6045CX 6015CX 6012CX	400.00 400.00	500.00 130.00	120 100 400 400	89 91 94 92 90	4 4 4 4	50-24 70-23 21-1 26-1.2	5 5 5 5 5	6½ 4 15 12	22		Yez No	Ρ	13/4 15/6 53/8 41/2		
	6005CX 6002CX 6963 6010EX	200.00 150.00	220.00 110.00	200 200 150 120	90 90 89 91	4 4 4	22-300 Hz 24-300 Hz 44-22 2.5k-22k	5 5 T	15 12 6 x 9	2		No	s	7 6½ 3%		
	6046ED 6056ED 6066EX 6247CD		200.00 220.00 240.00 80.00	90 120 120	89 90 91 90	4 4 4	75-22 60-22 50-22 70-21		4 5¼ 6½	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Â A A	Yes Yes Yes No	F, S F, S F, S F	13/4 21/8 21/8 13/4		
	6257CD 6256CD 6397CX 6367CX		90.00 120.00 140.00 130.00	90 90 90	90 92 91	4 4 4	48-22		5¼ 5¼ 6 x 9	223		No No No	F F F	174		
	6137AX 6147AD 6204 6210		50.00 60.00 100.00	30 30 60	88 89 90	4 4 4	55-21 80-20 70-20 75-21		6½ 3½ 4 4 x 6	2222233WW222323		No No	FFF	1½ 1% 1%		
	6267AX 6366 6297AX		150.00 90.00 190.00 110.00	90 90 120 90	90 91 89 92	4 4 4	50-22 55-20 50-21 48-21		4 x 10 5½ 5½ 5 x 9	232		No No No	FFFF	2% 1% 2% 2%		
	6396 6482 6011CX 6041		210.00 260.00 160.00 140.00	150 150 150 180	93 89 88 87	4 4 4	45-21 40-20 2k-22k 100-17	T M	6 X 9 8	32		No No	c	3½ %		Box enclosure.
	6051 6061 6013	150.00	140.00 190.00	180 180 200	87 87 89	4	75-15 50-8 22-1.2	M M W S	6½ 10				F F F	21/8 27/8 4%		
86					_										_	

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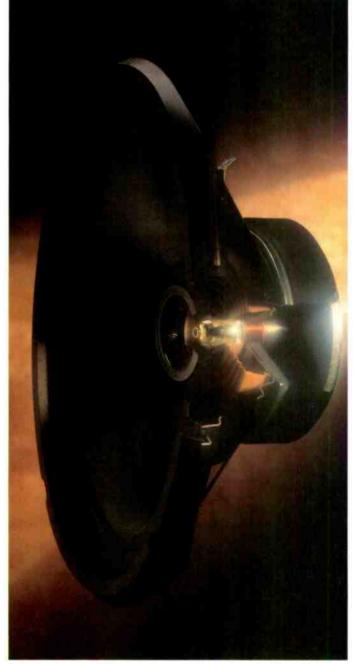
Since ICT replaces the tweeter with a more durable high frequency phase plug, there is no tweeter to blow out. You get incredible 2-way sound, coupled with increased reliability and a significantly lower speaker profile. So you can have the great sound of Advent without altering your car's interior.

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SPEAKERS DRIVERS

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ANUFACTURER	and the second second	A ST	J. J.	Heco.				<u> </u>	¢		//			See See		10 10 10 10 10 10 10 10 10 10 10 10 10 1
ALTEC LANSING	M400 M514 M615 M41 M50 M65 TW2		140.00 170.00 200.00 50.00 70.00 100.00 150.00	60 100 100 50 60 80 100	90 90 91 89 90 90 90		90-8 ± 3 60-8 ± 3 55-8 ± 3 80-8 ± 3 60-8 ± 3 55-8 ± 3 3.5k-22k ± 3	W W W W W T	4 5½ 4 5 6½		A		F F F F F, S	131 156 252 176 176 254	Yes Yes Yes	
	TW1 ALS525.1 ALS52.1 ALS52.1 ALS40.1 ALS46 ALS12 ALS10 ALS6.5 ALS6.9 ALS5 ALS4	375.00 325.00	50.00 325.00 220.00 150.00 110.00 180.00 180.00 100.00 70.00	80 100 70 50 50 400 80 80 80 60 40	90 † 90 90 90 99 98 91 93 91 90	-	$\begin{array}{c} 3.5k-20k\\ \pm 3\\ 60-22\ \pm 3\\ 60-22\ \pm 3\\ 80-22\ \pm 3\\ 100-20\ \pm 3\\ 80-20\ \pm 3\\ 30-5\ \pm 3\\ 30-5\ \pm 3\\ 45-20\ \pm 3\\ 35-21\ \pm 3\\ 60-20\ \pm 3\\ 80-20\ \pm 3\\ \end{array}$	T 8 8	51/4 61/2 51/4 31/2 10 61/2 6 x 9 5 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A/P	Yes No No No No	S F.S S S P F.F.F.C S S	15% 13% 47% 41% 21% 33%	Yes Yes Yes Yes Yes Yes Yes Yes	†Wooler, 89 d8; tweeter, 91 dB. Fits 4 x 6-inch hole.
	ALS693 ALS692 ALS500 ALS35 ALS8 55		300.00 260.00 260.00 70.00 200.00 250.00	120 120 100 30 150 80	93 93 89 88 90 85	4 4 4	$50-22 \pm 3 50-22 \pm 3 60-22 \pm 3 90-22 \pm 3 45-3 \pm 3 95-20 \pm 3$	\$	6 x 9 6 x 9 5¼ 3½ 8 4	2 3 2 2 W 2	- - -	Na Na Yes	S C P F, S S	31/2 31/2 11/2 21/0	Yes Yes Yes Yes Yes Yes	Biamp capable. As above. 4 x 6-inch adaptor plate supplied. Cabinet enclosure.
AMRITA AUDIO	6½" Driver 8" Driver 10" Driver	60.00 70.00 80.00		100 200 200	92 90 89	6 6 6	50-5 40-3 35-1.5	W W W	6½ 8 10				F F F	2% 3½ 4½	No No No	
ANABA AUDID	1570 AA525 AA300 AA830 AA1030 AA1050 AA1230 AA1250	149.95 74.95 89.95 99.95 106.95 119.95	37.50 36.00	500 150 150 200 250 300 350 400	99 94 96 97 98 98 99	4 4 4 4 4 4 4	25-2 50-5 3k-21k 30-3 25-2 25-2 25-2 25-2 25-2	WMT WWWW	15 8 10 10 12 12		-					
ANDANTE	M50 1570	183.00	149.95	60 400	90	4	55-21 ± 3	-	4	2	P	No	S E	6	No	Box enclosure.
A FUMIC LOUDSPEAKERS	1570 1270 1070 1550 1250 1252 1254 Free Air 1254 Dual Voicecoli	183.00 155.00 144.00 138.00 111.00 122.00 125.00 125.00		400 300 250 300 250 250 250 250 250	88 89 90 91 92 90 90	4 4 4 4 2 4 4	20-800 Hz 25-1 30-1.5 28-1.5 40-2 28-1	***	15 12 10 15 12 12 12 12		-			6 5 4 ¹ /4 5 ¹ /2	No No No No No No	Requires box enclosure. As above. As above. As above. As above. As above. As above. As above.
	1050 0850 1030 830 630 0525 0456 0206 0306 NP1594 HP1294 HP1094	105.00 94.00 86.00 77.00 69.00 71.00 55.00 275.00 239.00 141.00	98.00 71.00	200 100 75 75 75 75 600 600 400	95.8 95.5 91 96 97 97 96	* * * * * * * *	30-1.5 40-2.5 16-800 Hz 22-1 25-1.5	W W W M T T S S S	10 8 10 8 5 15 12 10	2		Yes			No No No No No No No No	Requires box enclosure. As above. As above.
AUDIOPHILE	1.1 5.1 8.2 10.1 10.2 2.5	79.00 99.00 110.00 120.00 130.00 379.00	179.00	40 100 100 250 250 100	89 89 91 91 94 91 89	4 4 4 4 4 4	3.5k-20k 50-3.5 27-2 27-2 25-2 27-2 50-20	T W S S S S	5 8 18 10 5		A/P A/P	Yes	\$ F F F F	1% 3½ 3½ 4½ 4½	Yes Yes Yes Yes Yes Yes Yes	External crossover required. As above. Dual volce-colls. As above. †Flush-mount woofer, surface-mount tweeter.
AUDIOSOURCE	LS Two/A		249.00	50	89	4	60-20		5	2		No	S		4	Cabinet enclosure.
AUDIOVOX	SC-696 CDWP-200 SW-50 SL-50 SL-30 SL-30 SL-10 TRY-45 TRY-35 TRY-30 CX-115 CX-115 CX-15 CX-15 SC-30 SC-1		$\begin{array}{c} 35.00\\ 125.00\\ 100.00\\ 100.00\\ 100.00\\ 50.00\\ 50.00\\ 50.00\\ 50.00\\ 50.00\\ 50.00\\ 50.00\\ 50.00\\ 30.00\\ 30.00\\ 30.00\\ 30.00\\ 25.00\\ \end{array}$	40 100 60 150 200 60 120 120 120 120 120 120 80 80 80 60		4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8	20-15 100-18 40-20 70-20 70-18 90-18 120-17 70-18 80-18 80-18 80-18 80-18 80-18 80-18 100-18 100-18 100-20 110-17 120-15 120-15 120-15		64565654554554555555555555555555555555	W 3 2 3 3 2 2 2 3 3 2 2 2 2 2 2 2 2 2 2		No No No No No No No No No			No No Yes Yes Yes No No No No No No	

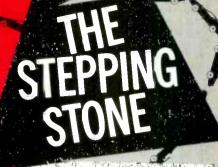
Speakers

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AUTOTEK	46BTM 86BTM	69.97 69.97		160 160		4	40-3 40-3	M M M					F	3	No No	
	488TM 888TM 4108TW	79.97 79.97 119.95		160 160	93	8	40-3 35-3 20-1	M	10				F F F	3 ¹ /2 3 ¹ /2	No No	
	412BTW 415BTW	129.95		260 260 260	93 94 94	ļĮ.	20-1 20-1 20-800 Hz	\$ \$ \$	10 12 15				F F	41/8 43/4 53/4	No	†2, 4, or 8 ohms.
AVI	SL380	375.00		500	95	4	25-600 Hz ± 3	S	15				F	51/1	No	
	SL300	305.00		500	94	4	28-700 Hz ±3	S	12				F	43/8	Mo	
	SL250 SL200	240.00		500 300	92 91	4	30-800 Hz ±3 35-1 ±3	S S	10 8				F	35/1 33/1	No	
	SL170 MX100	130.00	160.00	300	90 91	4	42-1.6 ± 3 125-6.2 ± 2	S M	61/2				F	21/8	No Yes	
	MX130 MX160 HF13N		200.00 250.00 60.00	200 240 120	92.5 93.5 95	4	75-6,2 ± 2 60-5,2 ± 2 5k-24k ± 2						F	23/8 21/2	999 1997 1997 1997	Instuden exemptions
	HF25S		125.00	240	93	1	2.4k-22k ±2	†	-		A		S F, S	3⁄4	No	Includes crossovers.
	HF25V		150.00	240	93	4	2.4k-22k ±2	Т			A		F, S	3/4	No	
8 & G Mobile Concepts	Speaker Panels		370.00	200	97	3.2	100-21 ± 3			2					Yes	Requires Model 2525 Audiodoors (replaces doors of Jeep CJ-7, CJ-8,
GUNGEFIS		.						[and Wrangler), \$1110.00 per pair, or Model 2013 Satellite (rear enclosure), \$290.00 each; also requires
																Connections Kit (wiring, connectors, and tweeter gain control), \$160.00.
	2012	930.00		600	98	6.3	30-100 Hz ± 3	S	(2)12						Yes	Enclosed subwooler; for Jeep CJ-7, CJ-8, and Wrangler.
BLACK KNIGHT	833 CCS AT-10	259.99	39.99	80 40	92 90	4	45-20 7k-20k	T	8	3	Р	Yes	F, S S	31/4	Yes Yes	
BLACK MAX	UES-800 UES-600 UES-1000	90.00 65.00 125.00	180.00 130.00 250.00	250 180 300	95 95 96	4/8 4/8 4/8	30-3.5 45-4.0 28-3.5	WWW	8 6½ 10				F	4¼ 3 4		For sealed enclosure. As above. As above.
	UES-1200 UES-1500	150.00 180.00	300.00 360.00	400 450	98 99	4/8 4/8	25-3.5 28-3.5	Ŵ	12 15				F	51/4 61/2		As above. As above.
BLAUPUNKT	UES-1800 ZL 693	225.00	450.00 249.95	450 300	99 93	4/8	23-3.5 30-25	W	18 6 x 9	3		No	F	7	Yes	As above. Wooter has second voice-coil for
	ZL 653 ZL 603		199.95 179.95	150 120	93 93	4	35-25 40-25		61/2	3		No No	F	23/4 21/2	r'es r'es	connection to subwooter amp. As above, As above,
	ZL 542		139.95 129.95	120 90	93 93	4	43-25 45-25		5¼ 4	2		No	F	21/4	Yes	AS 80046.
	RL 6935 RL 6920 RL 6528		139.95 119.95 99.95	150 100	94 93 92	4	30-24 35-24		6 x 9 6 x 9	3		No	F	3½ 3½	Yes Yes	
	RL 5428		89.95 89.95	80 80 50	92 91 91	4	40-24 45-24 50-24		6½ 5¼ 4 x 6	2 2 2		No No No	F F F	21/8 21/4 2	Yes Yes Yes	
	RL 4025 HC 1660		79.95 99.95	50 60	91 91	4	50-24 45-18		4 6½	2		No No	F	2 2 ¹ /8	Yes Yes	Honeycomb driver.
	HC 1340 HC 1030 CL 4665P		89.95 79.95 124.95	40 30 60	90 89 90	4	50-22 70-20 90-20		5 4 4 x 5	,		No No	F	13/4 13/4 11/2	Yes Yes Yes	As above. As above.
	RL 5400P CB 4500		149.95 159.95	100	92 89 95 95	4	45-20 30-20		5¼ 4	2 2 2			P	11/18	Yes	
	ACS 1221 ACS 1021 ACS 8021	119.95 89.95 79.95		200 200 200	95 95 95	4	20-3 25-3 35-3	WWW	12 10 8				F F ■ F	43/4 41/4 33/1	Yes Yes	
	ACS 1000 ACS 1521	199.95	99.95	100	95 90 96		3k-20k 20-2.5 ± 3		15				S F	378 6	Yes Yes Yes	
	ACS 65 ACS 60 ACS 54		149.95 139.95 129.95	225 180 150	96 93 93 93		30-5 35-5.5	T S W W W	6½ 6 5¼				F F		Yes Yes	
	ACS 40 ACS 10		109.95 229.95	120 450	93 93	4	38-7.5 40-8 3.5k-25k	Ŵ	4		P		F F.S	2	Yes Yes	includes frequency-selectable
BLUES	BDT25		89.95	75	93	4	3k-20k + 3	Т					F, S	3/4	No	crossover.
	BL3.5 BL4		99.95 109.95	30 50	86.5 86 88.5	4/8	165-8 ± 3 135-3.5 ± 3						F, S F, S	11/2 21/1 23/1	NO NO	
	BL5.25 BL6.5 BL8	79.95 89.95	119.95	50 100 100	88.5 87.5 89.5	4/8 4/8 4/8	90-3.5 ±3 30-4 ±3 30-4 ±3	W	6½ 8				F, S F, S F, S	2% 2% 3%	No No No	
	6L10 BL12	129.95 149.95		150 150	90 91	4/8 4/8	25-3 ± 3 25-2.5 ± 3	W	10 12				F, S F, S	43/8 5	No No	
	8L15 8T62 8T82	179.95	279.95 329.95	150 200 200	93.5 90.5 93	4/8 4 4	25-2 ±3 45-40 ±3 40-40 ±3	W	15 5½ 8	2		No No	F, S	6	No No No	Enclosure; for trucks. As above.
	BT102 BT122		399.95 479.95	250 300	93 94	4	38-40 ± 3 38-40 ± 3		10 12	2 2 2		No No			No No	As above. As above.
	BH6-02 BH8-02	289.95 349.95		200 200	90.5 92.5	4	$40-40 \pm 3$ $40-40 \pm 3$		6½ 8	2		No			No	Enclosure; for vans, hatchbacks, and 4 x 4s.
	BH10-02 BH12-02	419.95 479.95		250 300	94 94	4	$38-40 \pm 3$ $38-40 \pm 3$		6 10 12	2 2 2		NO No No			NO NO NO	As above. As above. As above.
(Continued)	BH15-02 TRISOBARIC-10	599.95 459.95		300 300	96.5 87.5	4	38-40 ± 3 35-250 Hz	\$	15 10,	2		No			No No	As above. Enclosed subwoofer.
(ŀ							(2)8							

AUDIO/MAY 1992

SPEAKERS

MANUFACTURER DRIVERS 000	
MANUFACTURER 100 <t< th=""><th></th></t<>	
MANUFACTURER 100 <t< td=""><td></td></t<>	
BLDEs INSUBARIC-100 459.55 300 87.5 4 35-250 Hz S 10, No As above. (Continued) ISO-KIT 10 349.95 300 91 4 25-250 Hz S 10, F, S 9 No As above.	
BLDEs INSUBARIC-100 459.55 300 87.5 4 35-250 Hz S 10, No As above. (Continued) ISO-KIT 10 349.95 300 91 4 25-250 Hz S 10, F, S 9 No As above.	
ISO-KIT 10 349.95 300 91 4 25-250 Hz S (2)10 F, S 9 No isobaric enclosed subwooler.	
Monitor Monitor <t< td=""><td>- trucke</td></t<>	- trucke
ACOUSTICS ProSeries Neo 11 260.00 170 89 4 44-20k ±3 T P F, S 1/2 Yes Includes crossover.	r wucks.
893 349.95 120 87 4 36.20 ±3 6 x 9 3 A/P Yes C 3/a Yes 861 249.95 120 87 4 48.20 ±3 6 ye 2 A/P Yes C 3/a Yes 851 229.95 100 87 4 48.20 ±3 6 ye 2 A/P Yes C 2 ye 841 219.95 80 87 4 85-20 ±3 4 2 A/P Yes C 1 ye ProSeries 4.2 380.00 80 89 4 100-20 ±3 4 2 A/P Yes C 1 ye ProSeries 5.2 400.00 130 89 4 65-20 ±3 5 ya 2 A/P Yes C 1 ya Yes	
ProSeries 5.2 400.00 130 89 4 65-20 ±3 51/4 2 AP Yes C 21/4 Yes ProSeries 6.2 430.00 170 89 4 55-20 ±3 6 2 AP Yes C 21/4 Yes ProSeries 8.0LF 200.00 430.00 170 89 4 20-1 ±3 S 8 8	
ProSeries 10.4LF 250.00 500 93 4 20.1 ±3 5 10 4¼ Yes ProSeries 10.8LF 250.00 500 93 8 20.1 ±3 \$ 10 4¼ Yes ProSeries 10.8LF 250.00 500 93 8 20.1 ±3 \$ 10 4¼ Yes ProSeries 12.0LF 325.00 700 95 4 20.1 ±3 \$ 10 4¼ Yes	
C700 Series II 199.95 100 87 4 58-20 ± 3 5¼ 2 No P 1½ Yes 797 199.95 80 89 4 36-20 ± 4 6 x 9 3 No F 2½ Yes 767 149.95 50 89 4 36-20 ± 4 6 x 9 3 No F 2½ Yes 767 149.95 50 89 4 56-20 ± 4 6½ 2 No F 2½ Yes 757 129.95 50 89 4 56-20 ± 4 6½ 2 No F 1½ Yes 757 129.95 50 89 4 56-20 ± 4 5½ No F 1½ Yes	
757 (129.95 50 89 4 58-20 ± 4 55/2 ± 4 51/2 No F 14/4 Yes 727 (109.95 20 90 4 100-20 ± 3 3 2 No P 11/2 Yes Fits American and European (710LF (179.95 200 92 4 33-120 Hz S 10 F 3/4 Yes Fits American and European (ars.
780LF Series II 149.95 200 91 4 40-120 Hz S 8 F 33% Yes	
701 99.95 80 90 8 4k-20k ± 3 T A/P C 1/2 Yes Includes crossover. 705 89.95 40 90 4 58-17 ± 3 51/4 W F 1/2 Yes Includes crossover. 707 50.95 40 90 4 58-17 ± 3 51/4 W F 1/2 Yes Includes crossover.	dal
704 79.95 25 90 4 90-17 ± 3 4 W F 13/4 Yes	aei
80STWICK 80S-654/658 69.50 100 91.8 4/8 55-4.5 W 61/2 F 3 No 80S-824/828 79.50 100 90.1 4/8 40-1.2 S 8 F 31/2 No	
805-844/848 99.50 125 91.4 4/8 35-2.5 S 8 F F 37/8 No 805-1024/1028 89.50 100 91.8 4/8 35-2 S 10 F 4 No 805-1044/1028 104.50 125 92.3 4/8 38-3 S 10 F 4 No	
805-1224/1228 109.50 100 91.4 4 8 37-3.5 S 12 F 4 ⁷ / ₂ No 805-1244-1248 119.50 125 92.7 4/8 37-3.5 S 12 F 5 No 805-1544-1548 139.50 125 93.7 4/8 25-1 S 15 F 6 5/N No	
805-1564/1568 179.50 250 94.8 4/8 22-800 Hz \$ 15 F F 64 No 808-354/358 38.50 50 86.3 4/8 250-11 M F 11/2 No 809-404/408 43.50 77 87.8 4/8 150-8 M F 21/2 No	
805-254/5258 59.50 100 90.2 4/8 100-5 W 5½ F 2½ No 808-8014/8018 24.50 35 90 4/8 3k-20k T F F ½ No 808-8004/8008 29.50 50 91 4/8 3k-20k T F F ½ No	
805-HD14/HD18 16.50 25 88 4/8 6k-18k T F 5% No B0S-HD24/HD28 17.50 25 88 4/8 6k-18k T F 5% No F 3/9 25 88 4/8 6k-18k T F 5% No F 3/9 25 88 4/8 6k-18k T F 5% No F 3/9 25 88 4/8 6k-18k T F 5% No	
20-319 81.00 55 4 50-18 3 No 5 Wedge style. 20-315 19.00 15 4 60-18 3 No 5 4/4 Wedge style.	
CANTON BMW 5/7 295.00 80 4 5½ 2 P Yes C 2% Yes VW Golf II 349.00 80 4 5½ 2 P Yes C 2% Yes HC100 295.00 60 87.2 4 48-30 ± 3 4 2 A No S No	
Pullman 495.00 80 89.7 4 45-30 ± 3 (2)4 3 A No Š No	
CX 160 349.00 50 91.8 4 5 2 Yes F 234 Yes TI 25 125.00 4 2.5k-30k T 5 2 Yes F 34 Yes	
M 120 125.00 4 150-2.5 M F 134 Yes W 160 150.00 4 150-2.5 M F 2 Yes External crossover required. W 205 250.00 4 W 6 F 3 Yes As above. W 280 209.00 4 S 10 F 3¼ Yes Out voice-colls; includes cro Sub 280 295.00 4 8 10 F 3¼ Yes Out voice-colls; includes cro Sub 300 350.00 130 4 18-250 Hz S 10 F 3¼ Yes Out voice-colls; includes cro	
Sub 280 295.00 4 5 10 F 3/4 Ves Yes Oual voice-colls; includes cro ± 3 Sub 300 350.00 130 4 18-250 Hz S 10 F 3/4 Yes Oual voice-colls; includes cro Sub 300 350.00 130 4 18-250 Hz S 10 F 3/4 Yes Oual voice-colls; includes cro	\$0V6 7.
A0-12 279.00 600 95 4/6 30-500 Hz S 12 F 5.7 Yes A0-15 399.00 600 97 4/8 30-500 Hz S 15 F 6.4 Yes	
CERWIN-VEGA S-8 Free Air 100.00 150 92 8 30-800 Hz S 8 F 31/s Yes S-10 Free Air 110.00 150 92 8 30-800 Hz S 8 F 31/s Yes	
S-12 Free Air 120.00 250 98 8 20-500 Hz S 12 F 4% Yes S-15 Free Air 150.00 250 101 8 20-400 Hz S 15 F 14 Yes	
CS-9 229.00 150 94 4 40-20 ± 3 6 x 9 2 Yes F, S 2% Yes H.1. overioad protected. CS-6 179.00 80 94 4 60-20 ± 3 6½ 2 Yes F, S 2½ Yes H.1. overioad protected. MW-6 179.00 80 92 4 60-20 ± 3 M C 2 Yes F, S 2½ Yes A above. XL8S 119.00 150 4 40-800 Hz S 8 F 3½ Yes	
XL8D 119.00 \dagger \dagger \dagger 40.800 Hz S 8 F J ¹ / ₂ Yes \dagger Dual voice-colls, 75 watts at ± 3	d
(Continued) XL10S 139.00 250 94 4 30-800 Hz S 10 F 41/2 Yes 4 0 Hr a per con.	



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SPEAKERS

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MANUFACTURER	(/ 2 2 1	<u>د ا</u>	/_	r/ &*				·/ ***	<u>/ </u>			<u> </u>	
CERWIN-VEGA (Continued)	XL10D	139.00		t	94	† .	30-800 Hz ± 3	S	10				F	41/2	Yes	†Dual voice-coils, 125 watts and 4 ohms per coil.
	XL12S XL12D	149.00 149.00		250	98 98	4	20-500 Hz ±3	S	12				F	51/2	Yes	
	XL12D	199.00		t 300	101	4	20-500 Hz ± 3 20-400 Hz	S	12 15				F	5½ 6¼	Yes	†As above.
	XL15D	199.00		t	101	t t	± 3 20-400 Hz	s	15				r	6 ¹ /4	Yes Yes	†Dual voice-coils, 150 watts and
	XL18S	399.00			103	4	±3 18-250 Hz	s	18			'		71/2	Yes	4 ohms per coil.
	CMT-5		199.95	100	92	4	±3 40-20 ±3		61/2	2		Yes	s		Yes	H.f. overload protected.
CLARION	SEP5300 SEP5301		25.00 40.00	45 45	89 89	4	100-20 100-20		31/2 31/2	W 2		No	F	1½ 1½		
	SEP5403 SEP5402		50.00 90.00	45 120	90 92	4	90-20 40-22		4 x 6 4 x 10	2 2 2 2 2		No	F	1¥4 2 ¹ ⁄2	Yes	
	SE6275 SE7360		75.00 100.00	100 120	92 91	4	40-21 40-22		6½ 6 x 8	2		No	F	21/1 21/1	Yes Yes	
	SE1400 SE2401		40.00 60.00	45 60	90 90	4	60-18 80-21		4	₩ 2		No	F	1¥4 1½	Yes	
	SE1501 SE2500		40.00 70.00	60 60	90 90	4	60-20 60-22		5 51⁄4	W 2		No	F	1% 1%	Yes Yes	
	SE1600 SE2601 SE2600		55.00 120.00	60 140	90 91	4	60-20 35-23		6½ 6½	W 2		No	F	13/4 25/8	Yes	
	SE3601		70.00 140.00	100 160	90 91	4	60-21 35-25		6½ 6½	2 3		No No	F	1¾ 2¾	Yes	
	SEB670 SE2900		100.00 80.00	100 100	90 91	4	40-23 30-21	ľ	6½ 6 x 9	2 2 3 2		No No	F	13/4 21/2	Yes	For marine use.
	SE3900 SE2901		110.00 150.00	140 140	92 92 92	4	30-23 28-23		6 x 9 6 x 9	3		No No	F	2½ 2½		
	SE3901 SET170		180.00 99.95	160 120	90	4	28-25 2k-25k	т	6 x 9	3		No	F	21/2		
	SET160 SEM470	r I	129.95 89.95	200 150	90 90	4	2k-25k 100-12	T M M					C F		Yes	
	SEM570 SEW5601		80.00 100.00	150 150	89 90	4	50-6 40-6	Wi	61/2				F	2 2¾	Yes Yes	
	SEW5806 SEW5106 SEW5126	70.00 80.00 120.00		300 375 450	92 93 95	4 4 4	30-3 25-3 20-3	W W W	8				F	4	Yes Yes	
CLIF DESIGNS	CD-1	120.00	99.00	50	91	4	5k-20k	Ť	12				F	51/4	Yes Yes	
	CD-3 CD-5 CD-7		109.00 129.00	50 50	91 91	4	5k-20k 5k-20k	T			A P		S S		Yes Yes	
	CD-9		139.00 149.00	50 50	91 91	4	5k-20k 5k-20k	Ť			A/P P		S F		Yes Yes	
	CD-41 CD-43		229.00 229.00	50 50 50 50 50	88.5 88.5	4	70-20				A	Yes Yes	S		Yes Yes	
	CD-45 CD-47		239.00 239.00	50 50	88.5 88.5	4	70-20 70-20		4		P A/P	Yes Yes	S S		Yes Yes	
	CD-49 CD-51		249.00 289.00	50 75 75 75 75 75 80	88.5 90.4	4	70-20 65-20		4		P	Yes Yes	FS		Yes Yes	
	CD-53 CD-55		289.00 299.00	75 75	90.4 90.4	4	65-20 65-20		5		A P	Yes	S		Yes Yes	
	CD-57 CD-59		299.00 309.00	75 75	90.4 90.4	4	65-20 65-20		5 5		A/P P	Yes Yes	S F		Yes Yes	
	CD-61 CD-63		329.00 329.00	80	92.6 92.6	4	55-20 55-20				A	Yes Yes	S		Yes Yes	
	CD-65 CD-67		339.00 339.00	80 80	92.6 92.6	4	55-20 55-20				P A/P	Yes Yes	S S		Yes Yes	
	CD-69 CD-409		349.00 249.00	80 50	92.6 88.5	4	55-20 70-20		4		P	Yes No	F		Yes Yes	
	CD-509 CD-609	70.00	279.00 299.00	75 80	90.4 92.6	4	65-20 55-20		5 6½		P	No No	F		Yes Yes	
	DVC-6 DVC-8 DVC-10	79.00		75 100	86 91.7	4		S	6 8						Yes Yes	Dual voice-coils. As above.
00110710	DVC-12	119.00 139.00		150 200	93.7 85	4		\$ \$	10 12						Yes Yes	As above. As above.
COUSTIC	HS-93 HS-92 HS-90		99.95 79.95	80 80	94 93	4	$53-20 \pm 3$ 42-19 ± 3		6 x 9 6 x 9	3 2 W		No No	F		Yes Yes	
	HS-50 HS-62 HS-60		59.95 54.95	80 60	92 90	4	53.18 ± 3 66.18 ± 3		6 x 9 6 ¹ /2	2		No	F		Yes Yes	
	HS-50 HS-52 HS-50		44.95 47.95 20.05	60 50	90 88	4	59-18 ± 3 59-18 ± 3		6½ 5¼	2		No	F		Yes Yes	
	HS-42		39.95 39.95 32.95	50 40	88 88	4	$61-18 \pm 3$ 77-18 ± 3		51/4	2 2		No	F		Yes	
	HS-40 HS-30 HT-601		32.95 18.95 22.95	40 30	88 86 92	4 4 4	70-18 ± 3 134-15 ± 3 25 205 ± 2		31/2	W			F	34	Yes	
	HT-615 HT-612	214.95 129.95	32.95	40 400 300	92 95 95	4	2k-20k ±3 25-1 ±3 28-1.5 ±3	S S	15 12				F	3/4 6 ⁷ /8	Yes Yes	
	HT-610 HT-608	82.95 54.95		200 150	95 93 92	4	$28 \cdot 1.5 \pm 3$ $30 \cdot 2 \pm 3$ $35 \cdot 3 \pm 3$	5 5 5	10				F F F	51/4 41/8 31/4	Yes	
	HT-606 HT-605	34.93	69.95 59.95	60 50	92 92 90	4	$35-3 \pm 3$ $55-10 \pm 3$ $65-12 \pm 3$	~ ₩ ₩	8 6 51⁄4				F	31/4 21/2 21/2 11/8	Yes Yes	
	HT-603		49.95 32.95	50 50 30	90 90 89	4	$90-12 \pm 3$ $90-12 \pm 3$ $130-16 \pm 3$	M	374				F	2 /2 1 1/3 1 1/4	Yes Yes Yes	
	HT-602 HT-600		37.95	15 15	92 92	4	3k-25k ± 3 3k-25k ± 3	Ť			P		S F	5/8	Yes	
	HT-623		67.95	30	89	Ă.	130-25 ± 3		4 x 6	2			s		Yes	
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Speakers

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MANUFACTURER	<u> </u>	120	<u> </u>	4	*/ 4	§/4	a 150.34	/3		<u> </u>	*/ *	×/ 4	×/ *	3/4		·/ ····
CRAIG	SG101 SG110 SG120		30.00 30.00 40.00	25 30 50 25 100	90 90 91	4	100-18 110-16 70-21		31/2	W	P	M-	F	13/8 11/4		
	SG210 SP530		30.00	25 100	90 91	4 4 4	80-16		5	2 W 3	P	No No	F F S	13/4		Box enclosure.
	SG310 SG320 SG410		40.00 60.00 40.00	40 80 50	90 91	4	50-16 40-22 40-16		6½ 6½	W 2	P	No	F	1 ⁷ /8 2 ¹ /8		
	SG420 SG430		50.00 60.00	70 80	90 91 91	4	40-20		6 x 9 6 x 9 6 x 9	2 3	P	No No	F	3 ¹ /4 3 ¹ /2 3 ¹ /2		
CRUNCH	ISD-66	300.00		150	90	4	42-400 Hz ± 3	S	(2)61/2				s		Yes	Compound tube enclosure; Q83 alignment.
	ISD-88 ISD-1010	340.00		250	90 91	4	38-200 Hz ± 3 32-150 Hz	s s	(2)8	ľ			s s		Yes	As above.
	CTS6	400.00	300.00	120	91	4	± 3 45-1 ± 3	s	61/2				s		Yes	As above. Tube enclosure.
	CTS8 CTS10 SD620		400.00 500.00 249.00	150 200 100	92 92 92	4 4 4	40-1 ± 3 35-1 ± 3 45-25 ± 3	S S	8 10 6	2		No	S		Yes Yes Yes	As above. As above.
	SD3200 SD2200		380.00 329.00	160	94 93	4	35-25 ± 3 45-25 ± 3		10	22	Â	No No	S		Yes Yes	
	SD4200 SD3210 CR7100	469.00	440.00 370.00	165 160 220	92 92 94 93 94 93 94 94 94 94	4	$30-25 \pm 3$ 28-25 ± 3		12 10 12	2222223	Å	No No No	555555555555555555555555555555555555555		Yes Yes Yes	
	CR6100 CR1530	399.00 600.00		175 300	94 96	4 4 4	30-25 ± 3		10 (2)15	23	Â	No No	S		Yes	Rear-ported enclosure for corner
	SD7300 CR210	550.00 450.00		220 200	95 93	4	28-25 ± 3 35-2 ± 3	s	12	3	A	No	S S		Yes Yes	loading; biamp capable.
	CR212 CR5MB	499.00	150.00	250 120	95 93 94 92 96 95	4	28-2 ± 3 100-5 ± 3	S S M	(2)10 (2)12				S F	23/4	Yes Yes	
	CRT52 CF7300 CR1530SB	359.00	69.00 650.00	60 175 250	96 95 96	4 4 4	3k-25k ± 3 25-20 ± 3 20-20 ± 3	'	12 15	3	P	No	C P S	1⁄4 8	Yes	For Camaros and Firebirds. Separate luned-port enclosure for each
	CR1830SB CR1PRD		759.00 199.00	275	97 94	4	20-20 ± 3 3.5k-20k	,	18	3		No	s		Yes	channel. As above.
	CR12PRD	250.00	199.00	300	04	4	± 3 32-1 ± 3	s	12		A .		C F	5	Yes	
	CR15PRD CR18PRD CR10WTP	300.00 450.00 150.00		400 500 200	95 96 93 94	4 4 4	27-1 ± 3 24-1 ± 3 34-1 ± 3	S S S	15 15 10				F	6 7 4	Yes Yes	
	CR12WTP CR15WTP	175.00 225.00		250 300	95	4	$30-1 \pm 3$ 28-1 ± 3	SSS	10				F F F	43⁄4 53⁄4	Yes Yes Yes	
	CR8WTP CR6WTP	90.00 75.00		120 100	92 91	4	$\begin{array}{r} 40-3 \pm 3 \\ 45-4.5 \pm 3 \end{array}$	S	8				F	3 ¹ /4 3	Yes Yes	
CRYSTAL CLEAR	UES-44 UES-45 UES-46	37.00 60.00 75.00	74.00 120.00 150.00	120 175 200	91 94 95	8 8 8	55-3.0 32-4.0 25-3.0	W W	6½ 8 10				F F F F	3 4 ¹ /2 4 ³ /4		For sealed enclosure. As above. As above.
	UES-47 UES-48	95.00 115.00	190.00 230.00	250 300	95 95	8	25-3.0 20-2.5	Ŵ	12 15				F	5 ¹ /2 6 ¹ /2		As above. As above.
DENDN	DCS-352 DCS-461P DCS-462U		80.00 115.00 115.00	30 60 60	90 91 91	4	90-20 ± 3 55-21 ± 3 55-21 ± 3		3½ 4 x 6	222		No No	F	1 ¹ /8 1 ³ /4 1 ⁷ /8	Yes	Fits factory cutouts of European cars.
	DCS-402 DCS-501		120.00 140.00	45 60	91 91	4	$55-21 \pm 3$ 55-21 ± 3 50-21 ± 3		4 x 6 4 51/4	222		NO No No	F	1 ¹ /4 1 ¹ /8	Yes Yes Yes	
	DCS-651 DCS-692 DCS-802W	100.00	170.00 260.00	100 150 250	92 92 92	4 4 4	40-21 ±3 35-21 ±3 30-3 ±3	s	6½ 6 x 9 8	2 3		No No	F	2 ¹ /4 4 3 ³ /4	Yes	Manuala da das da su ser ad su d
	DCS-1001W DCS-1201W	125.00		350 350	92 93	4	25-2 ± 3 20-2 ± 3	S	10 12				F F	374 41/4 53/8	Yes Yes Yes	Mounts to front or rear of panel. As above. As above.
DYNA DRIVE	UES-3 UES-7 UES-28	39.00 45.00	78.00	100 140	94 94	8	30-3.6 28-3.0	W	8 10				F	3 ¹ /2 5		For sealed enclosure. As above.
EARTHQUAKE	UES-38 UES-49 EQ-69	65.00 89.00 90.00	130.00 178.00	140 300	94 96	8	28-3.0 23-3.0	W	12 12				F	5 ¹ /2 6	-	As above. As above.
SOUND	EQ-6 EQ-8	89.00 109.00		120 100 180	91 91 94	4/8 4/8 4/8	50-2.5 40-2.5 30-1.5	₩ S S	6 x 9 6 8				F F	4½ 4¾ 4¾	NO NO NO	
	EQ-10 EQ-12	130.00 150.00		180 180	96 97	4/8 4/8	20-1.5 20-1.5	~~~~	10 12				F F F	5	No No	With dual 4-ohm voice-coils, \$175.00
	EQ-15 EQ-1065	175.00 100.00		300 240	98 97	4/8 4/8	18-800 Hz 19-1.5	S S	15 10	2			F	5½ 5½	No No	each. As above but \$200.00 each.
	EQ-1265 EQ-12 Cast Foam EQ-12 Cast XLT	110.00 199.00 259.00		260 300 320	98 98 99	4/8 4/8	18-1.5 20-1.5	~~~~	12 12				F F	5½ 6½	No No	Cast basket.
	EQ-12 Cast PRD	290.00		400	99	4/8 4/8	20-1.5 18-1.5	5	12 12				r F	6 ³ ⁄4	No No	As above; extra long throw; bumped backplate. Cast basket; reinforced cone
	Double Spider EQ-15 Cast Foam EQ-15 Cast XLT	250.00 290.00		360 400	99 99	4/8 4/8	20-1.5 20-1.5	SS	15 15				F	6¾	No	suspension (double spiders). Cast basket.
	EQ-15 Cast PRD	325.00		500	88	4/8	20-1.5 18-1.5	5 5	15 15				F F	6¾ 7	No No	As above; extra long throw; bumped backplate. Cast basket; reinforced cone
	Double Spider EQ-18 Cast Cloth EQ-1048 Bulk	399.00 85.00		360 140	102 96	4/8 4/8	18-1.5 20-1.5	S	18 10				F	7	No	suspension (double spiders).
(Cooline 4)	EQ-1248 Bulk TW-102	120.00 60.00		160 80	97 101	4/8 8 4	20-1.5 5k-22k	S 5 T	12		A/P		F	4½ 4½ 1¼	No No No	Titanium version, \$75.00 each.
(Continued)	TW-103 SMT		130.00	50	100	4	5k-24k	Т			A		S		No	

SPEAKERS DRIVERS

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		/	Price S (III'S S	In Pairs)	Sens Channey Patim	un. 55 80 Anning	Fernance, Ohns (1) W	as Bp ≥	A CANANA A C	Marches Marches	(1) and a state of the state of	Seal in the second second	Times Moundable	Manual () Sumace	Koass Reverse A.	holes
ANUFACTURER	Moder	Price S	Price S	Recom	Sem		Leguence Leguence	- Contraction	AND NOT				all and a second		Weat.	Moles
EARTHQUAKE SOUND (Continued)	TW-104 SME TW-105 SMR MD-4 MD-5 XL-4 XL-5 MD-5 Cast MD-5 Cast MD-6 Cast PL-46 MD-5 Open	39.00 45.00 40.00 60.00 70.00 99.00 80.00 50.00	70.00 75.00	30 30 80 80 80 100 80 80 40 60	99 99 100 101 101 101 91 94 94 94 96	4 8 8 4 4 8 8 8 4	5k-21k 5k-21k 600-7 400-7 300-7 300-7 200-6 50-5 400-20 300-5	T T M M M M M		2	A T	No	8 8 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	21/4 21/2 3 31/4 23/4 23/4 21/4 21/4 23/4	NO NO NO NO NO NO NO NO NO	tincludes flat and angled mounts. Sealed-back midrange. As above. Midrange and tweeter.
ECLIPSE	ESG-4000 ESG-6950 ESG-5000 ESG-5000 ESG-6000 ESG-8000 ESG-8000	159.95	129.95 279.95 109.95 109.95 119.95 199.95	30 70 60 90 150 200 13		4 4 4 4 4	50-25 30-28 2k-23k 100-12 45-3 25-5	T M W S	4 6 x 9 6 ¹ /2 8 3	23			F F, S F F T	13/4 31/5 7/8 15/8 21/8 33/8	No No No No No	Ambient center-channel speaker for use with EQS-1000 or EQS-1001 digi- tal sound processor (see "Amps"). †Mounts on rear-view mirror.
EXCALIBUR	EX-6913 PP-6923 EX-4102 EX-501 EX-502 EX-502 EX-401 EX-401 EX-401 EX-401 EX-401 EX-401 EX-401 EX-3001 EX-3001 EX-3001 EX-3001 EX-3001 EX-201 PP-621 PP-621 PP-1221 PP-1221 TW-1 TW-4	39.95 59.95 79.95 99.95 39.95 39.95 39.95	39.95 49.95 29.95 39.95 59.95 59.95 59.95 59.95 59.95 59.95 59.95 59.95 59.95 59.95 59.95 59.95	150 150 100 80 100 100 60 80 80 50 100 150 150 150 150 150 150		************		M W W T T	6 x 9 6 x 9 4 x 10 5 ¹ / ₄ 5 ¹ / ₄ 5 ¹ / ₄ 4 4 4 x 6 3 ¹ / ₂ (2) 3 (2) 4 8 10 12	332¥222¥22¥				134 134 134 134 134 134 134 134 17/2	Yes Yes Yes Yes Yes Yes Yes	
EXXESS Electronixx	EX-48 EX-410 EX-412 EX-415 EX-415 EX-418	28.75 36.80 43.70 48.30 94.30		180 220 280 340 420	92 93 96 98 98	4 4 4 4	20-1 ± 3 15-1 ± 3 10-1 ± 3 10-1 ± 3 10-1 ± 3	\$ \$ \$ \$ \$	8 10 12 15 18				F, S F, S F, S F, S		Yes Yes Yes Yes Yes	
FAS	CS369F PS693 PS692 PS62 PS6 PS6 PS4		169.95 99.95 89.95 69.95 49.95 49.95	90 60 50 60 20 20	93	4 4 4 4 4	50-25 60-20 60-20		6 x 9 6 x 9 6 x 9 6 4	3 3 2 2 W W		No No No No	F F F F	3 2 ⁷ /8 2 1 ³ /4 1 ¹ /2	No No No No No	
FOCAL	T90K 5K013L	60.00 130.00		30 50	91 90	6	2.5k-20k 50-5	TW	51⁄4				F	1 23⁄4	Yes Yes	
FULTROM	15-9793 15-9762 15-9762 15-9746 15-9746 15-9550 15-8550 15-8550 15-8250 15-8250 15-8210 15-9012 15-9012 15-9012 15-9012 15-9108 15-9112 15-9112	79.95 54.95 49.95 54.95 54.95 54.95 79.95 99.95 119.95	89.95 74.95 55.95 55.95 59.95 40.00 69.95 54.95 54.95 29.95 29.95	120 100 60 60 140 140 60 80 80 80 80 80 80 200 100 140 140 140	88 86 85 85 85 86 88 95 88 86 90 90 88 90 90 88 90 90 88 90 90 88 90 90 88 90 90 88 90 90 88 90 90 88 95 93 93	4 4 4 4 4 4 4 4 4 4 4 4 4 4 8 4/8 4/8 4/	$\begin{array}{c} \textbf{30-20}\\ \textbf{50-20}\\ \textbf{50-20}\\ \textbf{50-20}\\ \textbf{80-20}\\ \textbf{30-20}\\ \textbf{30-20}\\$	**************************************	6 x 9 61/2 51/2 51/4 4 61/2 15 12 10 12 8 10 12 12 15	33222		No No No No No		3 ¹ / ₂ 3 ²⁵ / ₈ 2 ¹ / ₈ 2 ¹ / ₈ 2 ¹ / ₈ 2 ¹ / ₄ 2 2 6 ¹ / ₂ 5 4 ¹ / ₂ 4 ³ / ₈	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Dual voice-coils.
GEMINI	RW-10 RW-20 RW-40 RW-50	304.00 380.00 493.00	350.00	150 150 200 300	97 95 99 95	4 4 4	60-22 45-22 40-20 60-20		10 10 12 15	3335	P P A A	No No No	S S S		No No No	Box enclosure. As above. As above. As above.
GÖLD SOUND	GS1284 GS1244SVC	199.00 109.00		300 200	95 92	4	22-2 22-500 Hz	S S	12 12				F	51/4 53/8	Yes Yes	Requires enclosure of 1 cubic foot; vented pole-piece. As above; 8-ohm version available; with dual 4- or 8-ohm voice-coils. \$119.00 each. Requires enclosure of 0.7 cubic foot:
	GS844 GS1044 GS824 GS821-4	98.00 109.00 79.00 74.00		200 200 100 100	92 92 91 91	4	28-2 25-1 ± 3 32-2 ± 3 32-2 ± 3	S S S	8 10 8 8				F F F	334 41/4 351 351	Yes Yes Yes Yes	Requires enclosure of 0.7 cubic foot; vented pole-piece; 8-ohm version available. As above; dual voice-coils. As above; mean of 0.7 cubic foot; Requires enclosure of 0.7 cubic foot;

Speakers

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MANUFACTURER	* °°			- A	× .		and is it	33			~/ \$	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	* / :*		i 3	Maller
GDLD SOUND (Continued)	GS6x9W	69.00		100	91	4	40-3 ± 3	S	6 x 9				F	35/8	Yes	Requires enclosure of 0.7 cubic foot; vented pole-piece.
	GS512-4 GS405-4	39.00 36.00		50 40	90 90	4	70-5 ± 3	M					F	2 ¹ /2	Yes	Vented pole-piece; 8-ohm version available.
	GS624	69.00		100	92	4	35-3 ± 3	S	61/2				F	31/2	Yes	As above, As above; requires enclosure of 0.5 cubic feet.
	GS612-4 GS524	49.00 59.00		60 100	90 89	4	$ \begin{array}{r} 38-4 \pm 3 \\ 60-4 \pm 3 \end{array} $	S	6 ¹ /2 5 ¹ /4				F	3 23/4	Yes Yes	As above. Vented pole-piece; 8-ohm version
	GSBAC-4		199.00	100	92	4	32-20 ± 3		8	2		No	F	3¾	Yes	available. Blamp capable; 8-ohm version available.
	GS8C-4 GS69AC GS69C		139.00 199.00 139.00	60 100 60	92 92 92 92	4	36-20 ± 3 40-20 ± 3 45-20 ± 3		8 6 x 9 6 x 9	222		No No No	FF	31/2 33/4	Yes Yes Yes	As above. Blamp capable. As above.
	GS6.5AC GS6.5C		189.00 129.00	100 60	92	4	35-20 ± 3 38-20 ± 3		6½ 6½	22			F	3 ¹ /2 3 ¹ /2 3	Yes	As above. As above. As above.
	GS5x7C GS5AC		138.00 169.00	40	92 92	4	$68-25 \pm 3$ $65-25 \pm 3$		5 x 7 51⁄4	2			F	23/4	Yes	As above; for Ford, Chrysler, Audi, Porsche, and VW vehicles.
	GS5C GS4x10C		119.00 139.00	50 40	92	4	70-25 58-25 ± 3		51⁄4 4 x 10				F	2 ³ /4 2 ¹ /2 2 ³ /4	Yes Yes Yes	Biamp capable. As above. As above; for GM and Ford vehicles.
	GS4x6C GS4SC		139.00 109.00	30 30	90 90	4	$58-25 \pm 3$ 98-25 ± 3		4 x 6	2		No	F	23/8	Yes	For GM, VW, BMW, and Porsche vehicles.
HAFLER	MAS 10 MAS 5	-	135.00	75 75	91 89	4	4k-20k ±3 8k-20k ±3	Ţ	-	-		No	r S C	13/4	Yes	includes crossover.
	MAS 35 MAS 460		119.00 199.00	100	88 88	4	200-20 ± 3 200-20 ± 3	'	31/2 31/2	2		No No	F	1 2 2	Yes Yes Yes	Fits 3½-inch or 4 x 6-inch holes,
	MAS 51 MAS 55 MAS 510		260.00 260.00 275.00	100 100 100	88 88 89	4	100-20 ± 3 100-20 ± 3 100-20 ± 3		5¼ 5¼ 5¼	2		Yes No	F	21/4 33/4	Yes Yes	
	MAS 520 MAS 60		325.00 125.00	100	88 88	4	100-20 ± 3 60-4 ± 3		51/4 51/2	222		NO NO NO	P P F	23/4 23/4 23/4	Yes Yes Yes	Fits 5¼-inch or 6 x 9-inch holes. As above.
	MAS 80 MAS 88 MAS 100		200.00 200.00 250.00	150 150 150	89 89 89	4 8 4	$40-2 \pm 3$ $40-2 \pm 3$ 28.1 ± 3	S	8 8	_			F	33/4 33/4	Yes Yes	
	MAS 108 ML124X2	150.00	250.00	150 200	89 90	8	28-1 ±3 28-1 ±3 24-2 ±3	S S S	10 10 12		-		FFFF	43⁄4 43⁄4 5	Yes Yes Yes	Dual voice-colts.
	ML84X2 ML104X2	120.00 135.00		200 200	89 90	4	$30-3 \pm 3$ 27-2.5 ± 3	S S	8 10				F F	4 43/8	Yes Yes	As above. As above.
HART	MS1000-18 MS1000-15	750.00 575.00		1k 1k	97 97	4/8	16-1.25 ±3 20-3 ±3	S S	18 15				F	6%	No	
	MS1000-12 SW10000	475.00 160.00		1k 100	96.5 91	4/8	24-3 ± 3 16-750 Hz	S	12 10				F	5 4½ 4¼	No No Yes	
	SW8000	130.00		150	93	8	± 3.5 16-1.5 ± 3.5	s	8				F	31/8	Yes	
	SW6500 SW6200 EMT4500	110.00 85.00	135.00	150 100	91 92 93.5	8	40-1.2 ± 3 50-3.5 ± 3	W	6 6				F	3 21/8	Yes Yes	
	CMT3500		75.00	75 50	95	8	100-8.5 ±5 1k-18k ±3	M					F	11/8 11/2	Yes No	
	PRD2000 ST1000 +		55.00 65.00	30 20	92 92	8	1.5k-20k ± 3 10k-26k	T					F	11/8	No	
	ND-250		05.00 110.00	40	92	8	10K-26K ±3 3.5k-23k	T T			٨P		S F, S		Yes	includes crossover.
	PR-106 PR-108	48.00 50.00		85 85	88 90	4	±3 45-6.5 ±3 40-6 ±3	w	6				F	2 ⁷ /8 3 ¹ /4	Yes	
	PR-110 PR-112	75.00 100.00		100 100	93	6	35-4 30-4	W	6 10 12 12				F F F	31/4 41/2 5	Yes Yes	
HECO	SR12-100 CAC130	185.00	320.00	250 50	100 89	8	$27-1.8 \pm 3$ 50-32 ± 3	S	12 (2)5 ¹ ⁄4	2	P	Yes	F †	17/8	Yes Yes	†Flush-mount woofer, convertible
	CAC160 CAC200		340.00 400.00	60 60	89	4	45-32 ± 3 40-32 ± 3		(2)6 ¹ /2	2	P	Yes	I	21/8 13/4	Yes	tweeter.
	CAC220 CPT100		350.00 140.00	100 40	89 92 89	4	30-2 ± 3 40-2.8 ± 3	S W	(2)8½ 4			Yes	F	31/8 13/4	Yes Yes Yes	Includes crossover.
	CAX160G CAX130G		220.00 200.00	50 50	89 89	4	45-25 ± 3 50-25 ± 3		6½ 5¼	2		No No	F	25/8 25/8	Yes	Without grille, Model CAX130,
	CAD100G CAS100		90.00 450.00	40 50	89 87	4	70-25 ± 3 80-32 ± 3		4	W 2		No	FS	11/18	No Yes	\$190.00 per pair. Box enciosure.
	CAB100 CPT230A CPT260A	125.00	300.00	40 160 180	89 94 94	4 8 8	70-32 ±3 27-4 ±3 22-3 ±3	S	4 9 10¼	2		No	P F F	11/2	Yes Yes Yes	
HIFONICS	HT2 HT3	40.00 55.00		80 100	88 89	4	12k-25k 11k-25k	T					F	7/1 11/2	102	
	NT1	55.00		100	92	8	17k-25k	Ť					F	5%8		Surface-mount adaptor, \$7.00 each; with mounting flange, Model NT2,
	NT3 MR1	60.00 65.00		100 70	92 88	8	17k-22k 650-1	TM			P		SF	7/1		\$58.00 sach.
	MR2 MR3 Ol064/068	75.00 55.00		100 80	88 89	4	500-12 90-13	M M W W	5				FF	1 21/1		
(Continued)	OL084/088 OL084/088 OL104/108	55.00 65.00 95.00		120 120 250	92 93 93	4/8 4/8 4/8	40-3 40-3 30-2	5 5 5	6 ¹ /2 8 10				न न न	3 3 4¼		
6						<u> </u>					_			~ /4		



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- 100,000mF computer grade capacitors
- Independent regulation of Mosfet drivers
- Matched complementary J-FET inputs
- 24 B-matched 60MHz, 15A output transistors
- Balanced XLR and gold unbalanced inputs
- Two pairs of 5-way terminals for bi-wiring

SPEAKERS DRIVERS

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MANUFACTURER	Made	Price S	Price S	Second	Willew W	uninsus	requence	-	Marine .	er ler	2 10 100	and the second	Palale .	Convertion	Linnin	soller, Moles
HIFDNICS	DL124/128	100.00		1 200	1 93	4/8	25-1	s	12	1	1	1	F	5	$\left(- \right)$	
(Continued)	DL154/158 WP064/068 WP084/088 WP104	125.00 65.00 70.00		275 150 150	93 92 93	4/8 4/8 4/8	20-800 Hz 40-3 40-3	5555	15 6 8				F F F	6 3 3		
	WP1028D WP124	125.00 130.00 130.00		275 300 300	94 90 93	4	30-2 30-1 25-1	~~~~~~	10 10 12				F	43/8 43/8 51/4		†Dual 4-ohm voice-coils.
	WP1228D WP154 WP1528D	135.00 158.00 158.00		300 300 300	90 93 91		25-1 20-800 Hz 20-800 Hz	S	12 15 15				F F F	51/4 61/8 61/8		
HOLLYWODD SOUND LABS	WP184 RSK-0041	210.00	250.00	400 80	96 92	4	20-800 Hz 100-20	s	18	2	A	Yes	F t	73/8 21/4		†Flush-mount midrange, surface-
	RSK-0051 RSK-0851		280.00 515.00	80 250	92 90	4	85-20 35-20		5 ¹ /4 (2)8	23	Â	Yes Yes	‡	21/2 31/8		mount tweeter. t+Flush-mount woofers and midrange,
	RSK-1051 RSK-1251		585.00 625.00	300 300	90 90	4	25-20 20-20		(2)10 (2)12	33	\$	Yes Yes	#	31/2 41/2		surface-mount tweeter.
HOT BOX	6TL 6TL-B 8TL-S		189.90 129.90 229.90	75 60 100	94 92 96	4 4 4	34-22 34-2 29-22	w	6 6 8	3		Yes Yes			No No No	Enclosure. As above. As above.
	8TL-SB 8TL-L 10TL-LB		149.90 249.90 199.90	75 100 120	94 97 97	4 4 4	25-2 25-22 21-2	WS	8 8 10	3		Yes Yes Yes			N O No	As above. As above.
	10TL-S 10TL-SB 10TL-L		269.90 189.90 279.90	150	97	4 4	24-22 24-2	s	10 10	3		Yes Yes			No No No	As above. As above. As above.
	12TL 12TL-8		299.90 229.90	150 175 150	98 98 97	4	21-22 18-22 18-2	s	10 12 12	3		Yes Yes Yes			NO NO NO	As above. As above. As above.
	8HL 8HL-B 10HL	249.90 169.90 289.90		100 75 150	96 94 97	4 4 4	25-22 25-2 22-22	s	8 8 10	3		Yes Yes Yes			NO NO NO	As above. As above. As above.
	10HL-B 12HL 12HL-B	209.90 319.90 219.90		130 150 130	96 98 97	4 4 4	20-2 20-22 18-2	S	10 12 12	3		Yes Yes Yes			No No	As above. As above. As above.
IMPACT	M-108.2 M-110.2 M-112.2		249.95 299.95 399.95	150 250 300	95 95	4 4 4	$\begin{array}{r} 40-20 \pm 3 \\ 37-20 \pm 3 \\ 34-20 \pm 3 \end{array}$		8 10	22		No No	s			Wedge enclosure; for mini trucks. As above.
	M-508.2 M-510.2	299.95 349.95	399.93	150 250	94 95 95	4	37-20 ± 3 30-20 ± 3		12 8 10	222		NO NO NO	S S			Wedge enclosure; for medium trucks. For hatchbacks. As above.
	M-512.2 SCM-8.2 SCM-10.2	419.95	309.95 359.95	300 150 250	95 94 95 95 94 95 95 95 95	4 4 4	$\begin{array}{r} 30-20 \pm 3 \\ 40-20 \pm 3 \\ 30-20 \pm 3 \end{array}$		12 8 10	2222	-56	NO NO NO	S S S		NO NO NO	As above. Enclosure. As above.
	BB-208 BB-210	219.95 269.95		150 250	95 95	4	42-500 Hz ± 3 30-500 Hz	S	8				S S		No No	
	BB-212 BB-215	319.95 419.95		300 500	95 95	4	±3 30-500 Hz 20-400 Hz	S	12 15				s		No	As above. As above.
	BB-A8 BB-A10	309.95 369.95		100 Inc. 100	92 92	4	30-500 Hz 25-500 Hz	S	8				S		No	Powered mono subwoofer; includes crossover; wedge enclosure; for trucks.
	BB-A12	429.95		Inc. 100 Inc.	92	4	20-500 Hz	s	12				s		No	Powered mono subwoofer; includes crossover; for trunks and hatchbacks. As above.
	BB-A15 BB-T208	499.95 259.95		100 Inc.	92	4	20-400 Hz	s	15				S		No	As above.
	BB-T210	329.95		200	92 92	2	40-116 Hz ± 3 37-113 Hz	s	(2)8 (2)10	-			S S		No No	Bandpass enclosure; for trucks. As above.
	BB-T212	399.95		350	92	2	±3 32-104 Hz ±3	s	(2)12				s		No	As above.
	MD2-8.4 MD2-10.4	80.00		75	92 92	4	20-2.5	w	8 10		-		E E	3 ³ /8		For enclosure of 0.25 to 0.5 cubic foot; 8-ohm version available. As above but 0.5 to 1 cubic foot.
	MD2-12.4 MD2-15.4 MFC-8.4	120.00 160.00 100.00		150 200 200	92 92 92	4	20-2.5 20-2.5 20-2 20-2.5	W	12 15 8				FF	5 6 3 ³ /8	No	As above but 0.75 to 1.5 cubic teet. As above but 1.5 to 2.5 cubic teet. As above but 0.25 to 0.5 cubic foot.
	MFC-10.4 MFC-12.4 MFC-15.4	120.00 140.00 180.00		300 400	92 92		20-2.5 20-2.5	****	10 12				F	43/8 5	NO NO NO	As above but 0.5 to 1 cubic foot. As above but 0.75 to 1.5 cubic feet.
	MFS-8.4 MFS-10.4	150.00 200.00		500 150 250	92 91 91	4	20-2 40-1.5 37-1.5	S S S	15 8 10		1.0		F F F	6 4 5	No No No	As above but 1.5 to 3 cubic teet. 8-ohm version available. As above.
INFINITY	MFS-12.4 KCS-65MB KCS-80IB	250.00 79.00 110.00		300 125 150	91 87 91	4 4 4	32-1.5	WW	12 6 ¹ /2 8					6 31/4 33/4 33/4	No	As above.
	KCS-80BR KCS-100IB KCS-100BR	110.00 140.00 140.00		175 175 200	91 93 93	4 4 4		₩ S S	8 10 10				4 4 4	3 ³ / ₄ 4 ³ / ₈ 4 ³ / ₈		For vented enclosures.
	KCS-120IB KCS-120BR 100-Kappa DIN	170.00	109.95	200 250 70	94 94 88	4 4	75-20	S	12 12	2		No	F	51/4 51/4		As above.
	120-Kappa DIN 130-Kappa DIN 150-Kappa DIN		119.95 129.95 89.95	80 80 70	88 88 88		65-20 60-20		43/4 51/8	~~~~		No No Na	444	13/8 13/4 21/4		DIN snap-in for European cars. As above. Four-tab mounting for European cars.
	693-Kappa 63-Kappa		249.95 199.95	100 55	90 88	4	70-20 34-45 58-45		5 ⁵ /8 x 3 ³ /8 6 x 9 6 ¹ /2	2		No	F F, S	1 ⁷ /8 2 ⁷ /8	Yes	As above.
(Continued)	692-Kappa 62-Kappa		189.95 189.95 149.95	75 55	90 88	4	34-22 58-22		6½ 6 x 9 6½	3 2 2			F F F	23/8	Yes Yes Yes	

SPEAKERS

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MANUFACTURER		A LICO		Reco				1	10 A0						s so	Notes
INFINITY (Continued)	52-Kappa 42-Kappa CS-1A Kappa CS-6 Kappa CS-5 Kappa CS-4 Kappa Kappa Polycell		144.95 99.95 439.95 279.95 249.95 229.95 125.00	30 25 200 120 100 90 40	88 87 89 90 88 88 88 94	4 4 4 4 4 4	63-22 98-16 34-45 58-22 85-22 100-22 3.5k-45k	т	5 ¹ /4 4 6 x 9 6 5 ¹ /4 4	2	***	Yes Yes Yes Yes	FFF, F, F, F, F, F, F, F, F, F, F, F, F,	11/8 17/8 23/8 21/4 15/8	Yes Yes Yes Yes Yes Yes Yes	
	Emit-N Kappa		189.95	50	93	4	±3 3.5k-45k ±3	T					s		Yes	
	RSDS 12" Pro RSDS 12" RSDS 10" RSDS 8" RSDS 6½" RSDS Polycell		600.00 450.00 350.00 270.00 149.95 125.00	300 250 175 150 100 40	92 90 90 89 86 94	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 22-1.5 \pm 3\\ 26\cdot 1.5 \pm 3\\ 30\cdot 1.5 \pm 3\\ 35\cdot 1.5 \pm 3\\ 50\cdot 4\\ 3.9k\cdot 22k\\ \pm 3\end{array}$	W W W W T	12 12 10 8 6 ¹ /2		A		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 ⁷ /8 5 ¹ /2 4 ¹ /2 4 ¹ /4 3	Yes Yes Yes Yes Yes Yes	
	RSDS Emit-N RSDS Polydome		189.95 200.00	50 50	93 88	4	±3 3.5k-45k ±3 700-4 ±3	т			Ρ		S F. S	3⁄4	Yes Yes	
	RSDS 4A RSDS Polygraph		100.00 260.00	50 50 75	88 89	4	100-4.5 ±3 100-800 Hz ±3	M M M					F, S F, S F, S	11/2	Yes	
	RS-6903 RS-6902 RS-602 RS-502 RS-402 RS-400 RS-500 RS-500		199.95 159.95 119.95 119.95 89.95 199.95 219.95 229.95	90 80 50 30 25 60	93 93 92 91 91 89 89 89	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	40-22 40-20 60-20 70-20 80-16 90-20 ± 3 80-20 ± 3 60-20 ± 3		6 x 9 6 x 9 5 ¹ / ₂ 5 ¹ / ₄ 4 5 ¹ / ₄ 6	3 3 2 W 2 2 2		Yes Yes Yes	F, S F, S F, S F, S F	2 ⁷ /1 2 ⁷ /1 2 ¹ /1 1 ⁷ /1 1 ⁵ /1	Yes Yes Yes Yes Yes	
101	462-K 32-K	479.00	54.95 49.95	25 18 1k	86 86 95	4	98-16 112-16 20-300 Hz	S	4 x 6 3 ¹ /2 18	W			F F F, S	13/4 15/8 67/8	Yes Yes Yes	For enclosure of 3.5 cubic teet; Venturi
JBL	1800GTi 1500GTi 1200GTi GT152 GT122 GT102 GT82 T120 T100 T104 T104 T84 T06	479.00 349.00 299.00 119.00 99.00 89.00 69.00 259.00 159.00 159.00 119.00	129.00	1k 1k 300 280 260 200 300 200 300 250 150	94 93 97 95 94 93 91 91 91 91 91 91		20-300 Hz 20-300 Hz 25-3 30-3.5 35-5 40-1.2 35-2.5 35-2.5 35-2.5 40-3 2.5k-26k	S S S S S S S S S S T	15 12 15 12 10 8 12 10 10 8				F.F.F.F.F.F.F.F.F.C SSSSSSSSSSSSSSSSSSSS	51/4 41/4 61/4 51/4 43/8 37/8 51/4 43/8 43/8 31/2 1/4	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	venting. As above but 2.5 cubic test. For enclosure of 1.75 cubic test. With dual voice-coils, \$129.00 each. As above but \$199.00 each. As above but \$99.00 each. As above but \$79.00 each.
	GT03 TD30 T414 T516 GT965 GT963 GT963 GT963 GT963 GT962 GT961 T545 GT622 GT621 GT522 GT521		79.00 349.00 199.00 299.00 199.00 169.00 149.00 149.00 349.00 349.00 139.00 99.00 119.00 89.00	90 200 40 80 100 140 120 105 150 100 90 90 60	90 92 90 92 92 92 93 92 92 92 92 92 91 91 91		41-23k 500-8 60-23 55-26 50-27 40-23 45-21 50-20 45-22 40-18 55-20 55-20 55-20 60-20 60-20 60-20	M	4 51/2 6 x 9 6 x 9 5 1/2 5 1/4 5 1/4	2224323322222		Yes Yes No No No No No No No No	S F F. C C C C C F S C F C F C	2 13/4 21/2 33/8 31/8 31/8 31/8 11/8 17/8 17/8 2 2 15/8	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Includes crossover. For Fords and Hondas. DIN basket. Tabs removable for European round
	GT422 GT421		99.00 69.00	80 50	91 90	4	70-20 70-20		4 31/2	2		No No No	F F F, P	1% 1½ 1¾	Yes No Yes	nounting. DIN basket. For Mercedes.
	T464 GT462 TL410 TL350 T75		119.00 59.00 119.00 49.00 269.00	60 60 80 15 100	90 92 92 87 85	4 4 4 4	100-20 70-20 55-20 115-15 75-26		372 4 x 6 4 x 10 3 ¹ / ₂ 5 ¹ / ₄	2 2 2 W 2		No No Yes	F F F P	11/2 31/2 11/2 15/2	Yes Yes Yes	For U.S. cars; tor European cars, Model GT462M.
JENSEN	JM 156 JTE 1300 JW101 JTX 3469 JCX 2469 JCX 2269 JX 3269 JCX 2269 JW804 JTX 340 JTX 340 JTX 320	299.00 149.00 59.95	80.00 119.00 80.00 99.00 79.00 109.95 99.95	100 300 375 190 160 160 140 200 150 140	89 97 89 92 91 91 88 93 93	4 4 4 4 4 4 4 4 4	45-20 53-22 36-200 Hz 35-23 30-22 35-23 30-22 35-20 25-3 45-22 45-22	s	6 ¹ / ₂ (2)10 10 6 x 9 6 x 9 6 x 9 6 x 9 8 6 x 9 6 x 9 6 x 9	W 3 2 3 2 3 3 3		No No No No No No	+ + + + +	31/2 31/4 31/2 31/4 41/8 41/8	Yes No No No No No	Enclosure; for hatchbacks. Dual voice-coils.
	JTX365 JSM401 JSM301 JXL461 JXL351 JXL692 JXL401 JXL653 JXL693		99.95 179.95 139.95 39.95 34.95 109.95 49.95 109.95 129.95	120 120 100 50 50 160 65 135 175	91 90 80 91 86 92 86 91 91	4 4 4 4 4 4 4 4 4	58-20 80-20 85-20 65-21 70-20 40-25 70-21 58-23 40-26		6 ¹ /2 (2)4 4 3 ¹ /2 6 x 9 4 6 ¹ /2 6 x 9	3 3 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		No No No No No No		11/2 11/2 11/4 4 11/4 11/4 11/4 41/18	No No No No No No	In-dash replacement. As above. As above.
(Continsed)	JXL653 JXL522 JXL653 JXL452		109.95 89.95 109.95 69.95	100 135 80	93 91 91 90	4 4 4	58-23 58-20 ± 3 58-23 65-23		61/2 51/4 61/2 41/2	3232		No No No	F F	4 % 1 3 /4 1 7 /8 1 3 /4	NO Yes No	For marine use.

Speakers Umun Dower

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MANUFACTURER	And	200	Price Sold Individually)	Recold in Pairs	\$ 10 × 10		Transame, Olas I Hant He	* /3		and the second				Communic () Surger	The second second	tone and the second
JENSEN	JFX165	Í –	49.95	1 13	1 30	1.4	00.20 ±3	+	61/2	T w	\leftarrow		F	11/1	\leftarrow	<u> </u>
(Continued)	JFX1460 J5252 J1401		39.95 199.95	50 150	90 88	4	65-18 50-21 ± 3		4 x 6 5¼	2 3		Yes		11/2	No	In-dash replacement.
	J1405 J1350		129.95 84.95 32.95	45 45 50	88 92 92 90		40-20 45-18		4 x 10 4 x 10	2		No No	F	2% 2%		
	JW1004 JW1204	67.95 79.95	32.93	250	30	4 8	80-50 25-2.1 ± 3	S	3½ 10	W			F	11/2	No	As above.
	JW1500 JW1200	99.95		350	94	4	20-2.5 ±3 20-2.1 ±3 20-2.5	S S S	12 15 12					6%		
	JW1000 JTE630	69.95	199,95	325 250 150	94 92 91 91	4	25-2.1 75-25 ± 3	Š	10	2	ļ.			5¼ 4½	No No	
	JTE830		249.95	200	94	4	60-25 ± 3		8	2		No	S		No	Carpeted enclosure; for smaller pickups and vans.
		1							ľ	1			ľ		No	Carpeted, bottom-loaded, ported enclosure; for smaller pickups and
1	JTE1030		299.95	250	95		55-20 ± 3		10			No	s		No	vans. Carpeted, bottom-loaded, ported enclosure.
	JM1600 JM1610	64.95 69.95		170	88 88	4	50-22 ± 3 50-22 ± 3		6½ 6½	2		No Ne	F	1%	Yes Yes	For marine use. As above; cabinet enclosure.
	JCX244 JCX225		64.95 79.95	75 80	90	4	61-20 ± 3 60-20 ± 3		4 51/4	22		No	S F F	1½ 1¾		Fits European cars.
	JCX246 JCX220 JCX240		69.95 89.95 89.95	90 130 140	90 92 92	4	60-20 ± 3 45-22		6½ 6 x 9	222222222		No No	F	196 41/6	No	
	JCX226		64.95	80	90	4	45-21 60-20		6 X 9 61/2	2		No No	F	41/1	No No	
JL AUDID	8W2 8W3	67.00 89.00		75 125		4	24-2.5 ± 3 23-250 Hz	S S	8				F	3 ¹ /2 3 ¹ /2	Yes Yes	For enclosure of 0.75 to 2 cubic feet. As above but 0.5 to 1.5 cubic feet.
	10W1	99,00		125	1	4	± 3 23-180 Hz	s	10				F	41/2	Yes	As above but 0.5 to 2 cubic feet.
1	10W2	109.00		125	1	4	± 3 26-250 Hz	s	10				F	41/4	Yes	As-above but 1.5 to 3 cubic feet,
	10W5	165.00		250		4	±3 21-250 Hz ±3	s	10				F	41/4	Yes	As above but 1 to 2 cubic feet.
	12W1	113.00		125		4	23-180 Hz ± 3	s	12			1	F	51⁄4	Yes	As above but 1 to 3 cubic feet.
	12W2	123.00		125		4	28-250 Hz ± 3	S	12				F	5	Yes	As above but 2.25 to 3.5 cubic feet.
	12W5	187.00		250		4	21-250 Hz ± 3	S	12				F	5	Yes	As above but 1.5 to 3 cubic feet.
	121B4 15W1	110.00 149.00		125 150	93	8	32-2.5 ± 3 21-180 Hz	W S	12 15				F	5½ 6¾	No Yes	As above but 1.5 to 5 cubic feet.
	15W5	209.00		250		4	± 3 20-250 Hz	s	15				F	5¾	Yes	As above but 2.5 to 6 cubic feet.
	CT-1 5CW-1		55.00 90.00	50	94	4	±3 5k-22k ±3	T	-		A		F, S	3/4	Yes	
	6CW-1 6W1	59.00	119.00	50 50 60	88 88 89	4	$\begin{array}{c} 60.8 \pm 3 \\ 50.5 \pm 3 \\ 50.4 \pm 2 \end{array}$	WWW	51/4 61/2				E	2½ 2½	Yes Yes	
	5CS-1 5CX-1	03.00	180.00 119.00	50 40	88 88	4	50-4 ± 3 60-20 ± 3 70-19 ± 3	w w	6½ 5¼ 5¼	2	A	Yes	F F, S	3 2 ¹ /2	Yes Yes	
	Mustang Stealthbox	599.00		200	95	4	28-120 Hz ± 3	S	10	-		No		21/2	Yes Yes	Fiberglass enclosure; for spare tire
	Toyota Smartbox	999.00		300	93	4	35-180 Hz ± 3	S	10						Yes	well of Ford Mustangs, Fiberglass enclosure; for Toyota standard-cab trucks,
-	Mazda Smartbox	999.00		300	96	4	34-180 Hz ± 3	S	10						Yes	As above but for Mazda standard-cab trucks.
	GM Full-Size Smartbox Nissan Smartbox	1099. 999.00		450	95.5		30-180 Hz ± 3	S	10						Yes	As above but for full-size GM pickup trucks.
	Nissan Smartbox 8A-1	999.00 229.00		300 50	93	4	35-180 Hz ± 3 44-140 Hz	S	10						Yes	As above but for Nissan standard-cab trucks.
	8PT-2	399.00		100		4	± 3 42-125 Hz	S S	8 (2)8						No	Bass-reflex bandpass enclosure.
	10A-1	329.00		125		4	±3 42-100 Hz	s	10						No No	As above. As above.
	10PT-2	499.00		250		4	±3 42-100 Hz	s	(2)10						No	As above.
JVC	CS-T11		159.95	150	88	4	<u>±3</u> 1k-30k	T					F	54		
	CS-M04 CS-M05		99.95 89.95	150 150	88 88 89	4	45-7 45-7	M					F	5% 13/4 21/4		
	CS-F08 CS-F10 CS-F300	240.05	169.95 199.95	200 300	89	4	30-2 20-1	\$ \$ \$	8				F	3 ³ /8 4 ³ /8		
	00-1000	249.95		+	86	1	20-2	S	6 X 6				S			†Dual voice-coils, 50 watts and 4 ohms per coil. Ported enclosure;
	CS-XG6938 CS-XG638		269.95 229.95	150 100	90 89	4	25-30 30-30		6 x 9 6 ¹ /2	3			F	31/1		honeycomb driver.
	CS-X6936 CS-X6926		159.95	135	92 92	4	30-20 30-20		6 X 9 6 X 9	32			F	2 ¹ /8 3 2 ³ /4		For marine use.
	CS-X626 CS-X616		89.95 69.95	100 75	91 91	4	40-20 40-20		6½ 6½	2 W			F	294 11/1 11/1		As above. As above.
	CS-X426 CS-X416		79.95 69.95	45 45	88 88	4	50-20 50-20		4	2 W			F	1¥4 1¥4		As above. As above.
	CS-6937 CS-6927		119.95 99.95	120	93 92		30-27 30-24		6 x 9 6 x 9	3			FI	27/		As above.
	CS-6917 CS-627 CS-617		89.95 74.95 59.95	75	93 92 92 90 90		30-15 40-20		6 x 9 6½	2			FFF	2% 2% 1%		
(Continued)	CS-526 CS-516		59.95 69.95 59.95	60 60 60	90 90 90		40-19 50-20 50-20		6½ 5¼	W 2			F F F	13/4 13/4		
100			33.33		30	•	30-20		5¼	W			F	1¾		

AUDIO/MAY 1992

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Consult an authorized Blue Thunder dealer and see why MTX Blue Thunder is a proven winner.



The 10" MTX BTW1044

SPEAKERS

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MANUFACTURER	and the second	Price.	Price S	Becom	Siller Mark	illisur,	to due				*/ }			3	Ke	folis.
JVC (Continued)	CS-427 CS-417 CS-5724 CS-304 CS-103 CS-103		49.95 39.95 129.95 34.95 229.95	45 45 60 30 60	87 91 87	4 4 4	50-20 50-20 40-20 80-15 40-25		4 4 5 x 7 31/2	2 W 2 W 2			F F F P	134 134 21/2 15%		
	CS-8G7 CS-81 CS-8007 CS-MR626 CS-MR616		169.95 129.95 169.95 89.95 69.95	100 70 70 100 75	90 90 90 91 91	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	45-30 60-20 50-20 40-20 40-20		41/2 4 61/2 61/2	3 2 3 2 W			S S F F	17/1 17/1		Basa-reflex enclosure. As above. For marine use. As above.
KAWASAKI	KS-36 KS-39 KS-360 KS-390 KS-390		109.00 115.00 180.00 180.00 285.00	60 70 100 120 180	88 88 90 92 94	4 4 4 4/8	55-16 ± 3 55-16 ± 3 70-20 ± 3 40-20 ± 3 110-20 ± 3		6 ¹ /2 6 x 9 6 ¹ /2 6 x 9 5	W 3 3 2		No No No	F C F C S	3 3½ 2% 3¼	Yes Yes Yes Yes Yes	Box enclosure; dual voice-coits.
KEF	GT-100 GT-200		250.00 575.00	50 100	90 90	4	50-20 ± 3 30-20 ± 3		4½ 8	23		No Yes	P P	1¾ †	Yes Yes	†1¾ inches for satellites, 12 inches for enclosed subwoofers.
	KAR-19S KAR-19F		120.00 120.00	70	90 90	4	2.5k-22k ±3 2.5k-22k	T T					S F	1½	Yes Yes	External crossover required. As above.
	KAR-33A KAR-33F KAR-110		120.00 120.00 120.00	100 100 100	90 90 90	4 4 4	±3 2.5k-20k 2.5k-20k 50-5	T T W/	41/2		A/P	,	S F F	134 21/1	Yes Yes Yes	As above. As above. As above.
KENWOOD	KAR-200SW KFC-HQ160		350.00 149.00	100 150	90 90	4	30-250 Hz 35-22 ± 3	ŝ	8 6½	3		No	F F F	12 21/4	Yes Yes	As above; enclosed subwooler.
1	KFC-HQ130 KFC-1683 KFC-1683 KFC-1673 KFC-1663 KFC-1373 KFC-1363 KFC-1073 KFC-1073 KFC-1053 KFC-1053 KFC-W212 KFC-W210 KFC-W106 KFC-K106	149.00	119.00 99.00 119.00 89.00 59.00 69.00 49.00 199.00 129.00 79.00	100 60 120 60 60 50 50 40 300 300 45	90 89 92 92 91 91 90 90 90 90 92 89	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	45-22 ± 3 55-22 ± 3 45-21 ± 3 50-20 ± 3 50-20 ± 3 60-20 ± 3 60-21 ± 3 60-21 ± 3 60-20 ± 3 30-3 70-20	S S W	5 4 6 1/2 5 5 4 4 12 6 4 4 12 6 4 x 6	2 2 3 2 W 2 W 2 W	-	No No No No No		21/4 13/4 2 15/1 15/1 13/4 13/4 15/1 5/1 4/2 13/4	Yes Yes Yes Yes Yes Yes Yes Yes	
	KSC-7701 KSC-9901 KSC-8801	249.00	249.00 199.00	200 200 150	90 90 90	4	35-20 40-20 50-20		(2)10 10 8	2 3 2 2	A	No Yes Yes	S S	174	No	Box enclosure; for hatchbacks. Box enclosure; for trucks; tweeter overload protection. As above.
	KSC-5100 KFC-411G KFC-4671 KFC-830G KFC-6973 KFC-6973 KFC-497C KFC-W310 KFC-W310 KFC-W310 KFC-W308 KFC-W310 KFC-W308 KFC-M205 KFC-M204 KFC-7201 KFC-P204 KFC-P204 KFC-P204 KFC-W208 KFC-W208 KFC-W208 KFC-W208	149.00	169.00 99.00 99.00 129.00 129.00 159.00 199.00 199.00 199.00 159.00 159.00 159.00 159.00 159.00 209.00 189.00 189.00	60 100 45 30 105 150 200 45 300 300 150 150 150 150 150 300 300 150	85 91 91 92 92 91 88 91 88 91 88 90 90 92 98 92 98 93 90 92 98 93 93 93 93 93 93 93 93 93 93 93 93 93		60-20 60-20 60-20 35-22 35-25 30-26 28-30 60-20 30-1 45-9 45-9 45-9 45-9 45-10 2k-25k 50-20 60-20 60-20 60-20 55-2 2k-23k	55 5 5 5 5 T	4 x 10 4 x 5 3 x 5 6 x 9 6 x 9 7 0 6 x 9 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0	222W233322 2222	A	Yes No No No No No Yes Yes Yes	ภาก เวกากก ช	2178 333773321432434348 344243214343434 3443434343434343434343434343434	Yes Yes Yes Yes Yes Yes	
KICKER	Solo-baric S-8 Solo-baric S-10 Solo-baric S-10 Solo-baric S-12 FX-525 FX-65 FX-65 ND-26 D-20 D-20 D-20 D-14 Competition C-15 Competition C-15 Competition C-15 Competition C-15 Freeair F-15 Freeair F-12 Freeair F-10 Freeair F-8 Freeair F-8	169.00 249.00 299.00 439.00 199.00 169.00 139.00 79.00 169.00 169.00 169.00 79.00 79.00 79.00	229.00 199.00 249.00 239.00 249.00 79.00 65.00 59.00	300 300 450 600 95 50 100 100 75 75 65 1k 500 400 300 200 200 200	90 91 91 91 88 86 96 95 93 93 93 94 95 93 92 94 95 95 95 95 95	4 4 4 4 4 4 4 4 4 4 8 6 6 4 8 8 4 8 8 4 8 8 4 8 8 4 8 8 4 8 8 4 8 8 4 8 8 4 8 8 4 8 8 4 8	28-100 Hz 24-100 Hz 20-100 Hz 50-21 50-21 30-21 30-21 3.5k-20k 3k-21k 3k	**************************************	8 10 12 51/4 6 x 9 61/2 18 151/6 151/6 151/6 151/6 121/4 81/8 61/2 101/6 81/6 81/6 x 9 61/2 101/6 81/6 121/4 101/6 121/4 10 12 121/4 12 12 12 12 12 12 12 12 12 12 12 12 12	2222		NG Ng Ng Ng		11/4 11/4 3/4 3/7/6 5 3/3/6 5 3/3/6 5 3/3/6 5 3/3/6 3/3/6	Na Na Na Na Na Na Na Na Na Na Na Na Na N	Sealed enclosure. As above. As above. Includes crossover.
(Continued)	Freeair F-6.5 Freeair F-5.25 Freeair F-4 Freeair F-3.5	79.00 59.00 49.00 39.00		150 90 70 50	96 91 89 88	4/8 4/8 4/8 4/8	30-3.5 50-5 60-6 90-15	W M M	9% 6½				F F F	2% 2% 2% 1%	No No No	includes bass blocker. As above. As above.

SPEAKERS DRIVERS

			, March			to unu	Li Manu	<u>e</u> :						See 2	(i) and (ii)	
MANUFACTURER	and the second sec	Price S	Sold Individually)	Pecomo In Pairs)	Se Channel Ma	una in thinking	Trenenter, Ohns II	Nod- in the	A CONTRACTOR OF	and and a second se			and the second second		A AND	Moles
KICKER (Coetlaged)	SS15 SS12 SS10 SS6 SS6 SSCTF 2x10 SK12 SK10-2 SK10-2 SK6-2 Compact Sub	549.00 449.00 359.00 479.00 359.00	689.00 179.00 549.00 449.00 359.00 279.00 229.00	300 250 200 150 75 200 200 250 250 200 150 125 75	93.5 93.5 92.5 91.2 91.5 92.5 92.5 92.5 93.5 92.5 90.5 89.5 88.9	4 4 4 4 4 4 4 4 4 4 4 4	28-21 30-21 33-21 55-21 25-21 25-500 Hz 35-21 38-21 40-21 40-1	s s	(2)15 (2)12 (2)10 (2)8 (2)6 (2)10 (2)10 (2)12 (2)10 (2)10 (2)8 (2)5	3 3 2 2 3 3 3 2 2 2		No No No No No No No No No	» » » » » » » » » » » » » » » » » » »		No No No Yes No No No No No No No	Cabinet enclosure. Passive-radiator enclosure.
KRACO	FX-93 FX-95 TRI-500 CX-300 TRI-369 CX-269 CX-120 CX-220 THP-3 CX-240		119.95 209.95 109.95 59.95 54.95 54.95 59.95 44.95 54.95	100 100 50 25 50 40 40 40 25 40	96 86 85 89 86 86 86 86 86	4 4 4 4 4 4 4 4	40-20 20-20 150-16 60-17 65-16 90-16 90-16 150-20 90-16		6 x 9 6 4 3 ¹ /2 6 x 9 6 x 9 6 ¹ /2 5 ¹ /4 3 ¹ /2 4	323232222	A A A	NO Yes No No No No No No No		31/2 31/2 31/2 21/2 21/2 21/4 11/4 11/4	No No No No No No No No	Box enclosure.
LANZAR SOUND	LN18 LN15 LN15 LN10 LN8 OA15S OA12S OA12S OA12S OA12S OA10S OA8S LXR10 LXR12 LC18S LC15S LC12S LC18S LC10S LC8S RDT HCX6 x 9 DST HCX6 x 9 DST HCX6.5 PST MWS6.5 DMT MWS5 M04 XR HB8 XR SP10 XR HB10 XR HB12 HF6600	249.95 139.95 109.95 79.95 74.95 159.95 84.95 84.95 84.95 229.95 184.95 199.95 199.95	75.95 259.95 64.95 134.95 99.95 84.95 89.95 84.95 279.95	250 200 150 150 200 150 200 150 100 100 100 350 300 60 150 60 150 60 150 60 150 150 60 150 150 100 200	101 99 96 96 99 96 96 98 96 96 98 96 96 96 96 96 96 96 98 98 99 92 98 99 92 93 93 93 93 93 93 93 95 95 95 95 95 95 95 95 95 95 95 95 95	4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8	30-2 30-2 30-2 30-2 20-200 Hz 20-200 Hz 20-200 Hz 20-200 Hz 30-6 40-1 40-1 40-1 40-1 40-1 40-1 40-1 40-1	S S S S S S S S S S S S S S S T T T T M	18 15 12 10 8 15 12 10 8 10 12 18 15 12 18 15 12 10 8 6 ¹ / ₂ 5 ¹ / ₂ 8 10 10 12 10	2 2 2 2 2 2 2 3 3	A P A A A A A	Na Na	86666644444444444444444444444444444444	$\begin{array}{c} 7 & 5 \\ 6 & 7 \\ 5 & 5 \\ 4 \\ 3 \\ 5 \\ 6 \\ 4 \\ 4 \\ 3 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4$		With dual 4-ohm voice-coits, \$329.95 each. As above but \$236.95 each. As above but \$189.95 each. As above but \$124.95 each. As above but \$105.95 each. As above but \$105.95 each. As above. As above. As above. As above.
L.A. SOUNO	HF7500 MT3300 LXR8 LXR15 LS 6903H LS 6902H LS 6902H LS 5002H LS 5002H LS 5002H LS 4002H LS 4001H LS 4001H LS 693 LS 692 LS 601 LS 693 LS 692 LS 601 LS 401 Barstow Indio Mojave Hemet Anza LX 15-400 LX 12-300 LX 10-200 LX 10-200	449.00 449.00 449.00 449.00 399.00 329.00 239.00 169.00 169.00 169.00 169.00 169.00 169.00 159.00 159.00 159.00 59	379.95 459.95 99.00 89.00 59.00 49.00 39.00 39.00 39.00 39.00 39.00 39.00 39.00 39.00 39.00 24.00 19.00	200 200 200 100 150 150 150 50 50 50 50 50 50 50 50 50 50 50 50 5	500 98 99 99 92 91 90 90 90 90 90 90 90 90 90 90 90 91 91 91 91 91 91 107 107 107 107 102 98 91 91 92 93 91 91 92 91 93 90 90 90 90 90 90 90 90 90 90 90 90 90	*****	40-20 40-20 30-6 30-6 55-21 50-26 55-21 80-20 90-20 90-20 90-20 90-20 90-20 90-20 90-20 90-20 90-20 90-20 90-20 90-20 90-20 90-20 28-20 38-20 20-15 36-25 38-20 20-15 36-25 36-25 38-20 20-15 36-25 38-20 20-15 36-25 36-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20-20 38-20 20	S S WW S S WW WM T T	12 10 12 12 12 12 12 12 12 12 12 12	333 32222 22 W W 3222 22 W W 3222 2222 2222 2222 2222		NG NG NG NG NG NG NG NG NG NG NG NG NG N		3% 3% 3% 21% 1% 1% 1% 3% 22 1% 7 5% 55 5 5 5 5 4 4 1%	Yes Yes Yes Yes Yes No No No No Yes Yes Yes Yes Yes	As above. As above. As above. As above. As above. As above. Box enclosure. As above. As above. A

Speakers

128 LAG 120 <th></th> <th></th> <th>,</th> <th></th> <th>/</th> <th>/</th> <th>-</th> <th></th> <th>11</th> <th></th> <th>7</th> <th></th> <th>DDP</th> <th></th> <th></th> <th>7</th> <th>/ / /</th>			,		/	/	-		11		7		DDP			7	/ / /
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Lange	MANUFACTURER	100 H	Price P	Price III	Beco	100 - C.		and state	1			*/ \$					Mole
LA30 LA30 LA4300 LA4300 LA43002 LA43002 LA43000 LA43000 LA4300 LA4300 LA4300 LA43000 LA43000	LAZER	LAS0		25.00 35.00	40	92	6	500-20	I Ŧ					F	1/2 1/2		
LAS3 B TO B PS - 0 F PS - 3 F P		LA100 LA350		49.00	80 60	89	4	500-22 400-8	T M					F	7/8 13/4		
LA48 LA48 LA154 T0.00 130.00 LA1540 T0.00 130.00 100.00 1		LA500 LA525		59.00	100 100	95 97	4	400-7 50-8	M	C14				F	21⁄4 3		Sealed-back midrange.
LASD DECEMPTION Constraint Tool of the stand sector is and the		LA848 LA1048	70.00 90.00		100 160	94 96.4	4	20-1.5 20-1.5	WS	8				F	4		As above but for 0.75 cubic foot.
LA1550 SPC121		LA1548 LA850	130.00 60.00		160 100	95.7 92	4	17-800 Hz 20-2	W I	15 8				F	6		
SPR210 B SPR210 F SPR210 F SPR210 F SPR210 F SPR210 F SPR210 F SPR210 F At above thined to 0 ftr. At above F At above thined to 0 ftr. F At above thined to 0 ftr		LA1250 LA1550	100.00		200 250	95 96 96	4	20-1.5 20-1.5	I W	12				F F F	5		
MEAR POWER 2022 Strong 95,00 bit 1000 200,00 bit 1000 200,00 bit 1000		SPK210	275.00	*	200 200	92 95 96	4	20-20		10	2 2 2			S S S			As above but tuned to 40 Hz.
BV-1 200.0 100 90 1 20-10 Hz 5 (2)8 1 100 No F 100 No 100	LINEAR POWER		995.00		250 220	96	4	-	s		2		Yes	-	33/4	No	Mono; includes feedback-servo amp.
Cence Fer Fer </td <td></td> <td></td> <td>Sys.</td> <td></td> <td>500 Inc.</td> <td>90</td> <td>+</td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td>Yes</td> <td></td> <td>10</td> <td></td> <td>As above.</td>			Sys.		500 Inc.	90	+						Yes		10		As above.
8 COAC 7 90 4 4 40 2 No F 34 No F 100 Tite cols			200.00														stereo. Two woofers fire through one
102070 1175.00 1 90.4 1 30.15 2 S 10 F 4/2 No 10.10 10	MADISOUNO	8 COAX		125.00	75	90	4	40-21 ±2		8	2		No	F	33/1	No	†Dual voice-coils, 100 watts and
LESTIC MARE MARE 100 66 4 4 43-3 8 5 10 1 4 40-3 8 10 4 40-3 8 10 1 100 66 4 4 33-3 8 5 10 1 4 40-2 1 100 16 6 4 4 33-3 8 10 1 4 40-2 1 100 16 6 4 4 33-3 8 10 1 4 40-2 1 100 16 6 4 4 33-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 1 4 100 16 6 1 4 35-3 8 10 10 10 16 6 1 4 100 16 7 100 16 6 1 4 100 16 7 100 16 6 1 4 100 16 7 100 16 6 1 4 100 16 7 100 16 6 1 4 100 16 7 100 16 6 1 4 100 16 7 100 16 10 100 16 7 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 10 100 16 1															41/2	No	†Dual voice-coils, 100 watts and
MS46P MS400 MS40 MS4			70.00	190.00			· ·			_				F	5	No	
MS46P MARK 70.00 d3 88 4 100.20 K X 2 No P 11/2 Yes MS400 50.00 25 89 4 80.20 51/4 2 No F 11/4 F	MAJESTIC	MAX10 MAX12	90.00 100.00		100 100	96 96	4	38-3 36-3	S	10 12							
MS300 MCS3A MCS4A MCS4A MCS4A MCS4A MCS4A MCS5A MCS5A MCS5AL MPS2CSL MPS2CSL MPS2CSL MPS2CSL MS25510 MSS5510 48.0 9.95 60 92 4 49.20 10 T 4 50.20 24 50.20 20.20 50 7 7 8 61.9 3 No F F 31/4 1/4 T F 31/4 1/4 T F 31/4 1/4 T F 31/4 1/4 T F 31/4 1/4 T F 31/4 1/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 31/4 <td></td> <td>MS46P MS410</td> <td>120.00</td> <td>40.00</td> <td>40</td> <td>88 89</td> <td>4</td> <td>100-20 80-20</td> <td>5</td> <td>4</td> <td>2 W</td> <td></td> <td></td> <td></td> <td>11/2</td> <td>Yes</td> <td></td>		MS46P MS410	120.00	40.00	40	88 89	4	100-20 80-20	5	4	2 W				11/2	Yes	
MC33A MC34 MC35A MC		MS525 MS610		55.00 60.00	30 40	90 90	4	60-20 50-20		5¼ 6	2		No No	F	1½ 2¼		
MCSBA MP34221. MP35221. MP35221. MP35221. MP35221. MP3582. MP358		MCS3A MCS4		39.95 39.95	60 150	88 92	4	4k-20k 3k-20k	Т	6 X 9	3		NO		11/2		
MM PSS2S1, MM PS692 Sp.95 60 92 4 60-20 6 2 No F 134 Yes MS59 MM PS692 89.95 125 92 4 40-20 6 x 9 2 No F 134 Yes MS59 MS5962 99.95 150 92 4 40-20 6 x 9 2 No F 134 Yes MS510 No F 134 Yes MS5316 40.95 30 90 4 40-20 6 y No F 134 Yes MS536 No No F 134 Yes MS540 No No F 134 Yes MS540 No No F 134 Yes MS540 No No No No F 134 Yes MS540 No No <td></td> <td>MCS6A MCS8A</td> <td>49.95</td> <td>49.95</td> <td>100 100</td> <td>92 92</td> <td>4</td> <td>60-10 20-2.5</td> <td>W</td> <td></td> <td></td> <td></td> <td></td> <td>F</td> <td>31/4 31/2</td> <td></td> <td></td>		MCS6A MCS8A	49.95	49.95	100 100	92 92	4	60-10 20-2.5	W					F	31/4 31/2		
MP5650 MS6510 99,95 49,95 30 150 92 92 4 4 40,22 40,22 6 5 3 7 No F 43/4 1% Yase 1% MS6510 49,95 MS4123 49,95 49,95 MS265HE 24,95 20 98 4 4 60-18 6 6 7 2 4 No F 1% No F 2% No MS265HE 24,95 MS265HE 20,95 29,95 20 88 4 4 00-16 6 4 2 4 W F 1% No F 1% No MS4010 29,95 MS4620 39,95 39,95 10 88 4 84 50-18 4 4 2 4 Wo F 1% No MS4620 79,95 MS556 19,95 10 88 4 4 45-20 6 x 9 3 3 No No F 3% No MS560 99,95 100 4 90-21 4 4 3 3 No S No MS560 99,95 100 4 90-21 4 4 3 3 No S No MS560 99,95 100		MPS52SL MPS62SL		59.95 69.95	60 60	92 92	4	60-20 50-20		6	2 2 2		No No	F .	13⁄4 13⁄4	Yes Yes	
MS4123 MS269HE MS269HE MS269HE MS4010 49.95 20 39 4 60-18 60-18 4 x 10 6 x 9 3 W No F 2% No MS4012 29.95 30 68 4 50-18 4 2 No F 3 No F 3 No MS4012 29.95 30 68 4 50-18 4 2 No F 1% No MS462D 39.95 30 68 4 60-18 4 x 6 2 No F 1% No MS560120W 79.955 60 90 4 45-20 6 x 9 3 No Bass-reflex enclosure. MS560 99.955 100 90 4 60-20 4 3 No S No As above: honeycomb woofer. MS560 99.955 100 92 4 60-20 4 3 No S No As above: honeycomb woofer. As above: honeycomb woofer. As abov		MPS69 MS6510		99.95 39.95	150 30	92 90	4	40-22 40-20		6 x 9	3 W		No	F	4¼ 1%	Yes No	
MS209HE MS4010 MS4012 49.55 29.5 20 29.55 88 30 4 50.18 6 4 4 9 4 4 W 4 F 7 1/2 1/2 1/4 No F 1/2 1/4 No F MS3055 MS3655 19.95 10 30 88 4 50.18 100.16 4 4 50.18 4 4 2 20.05 No F 1/2 1/4 No F No F 1/2 1/4 No F No F 1/2 1/4 No F No F 1/2 1/4 1/2 1/4 No F <td< td=""><td></td><td>MS4123 MS265HE</td><td></td><td>49.95 24.95</td><td>35 20</td><td>90 98</td><td>4</td><td>50-20 60-18</td><td></td><td>4 x 10 61/2</td><td>3 W</td><td></td><td></td><td></td><td>23/8 2</td><td>No No</td><td></td></td<>		MS4123 MS265HE		49.95 24.95	35 20	90 98	4	50-20 60-18		4 x 10 61/2	3 W				23/8 2	No No	
M 54620 M 565120W M 55566 39.95 79.95 M 5550 30 90 88 4 4 520 4 6 520 6x 9 3 3 8 3 3 No F 8x 9 No 5x 3 3 No F 3 3 No S No F S No S No F S Bass-reflex No S Bass-reflex As above. M 5500 99.95 100 90.4 80-21 4 3 No S No S </td <td></td> <td>MS269HE MS4010 MS4012</td> <td></td> <td>49.95 29.95 29.95</td> <td>25 20 30</td> <td>88 68</td> <td>4</td> <td>60-18 100-16 50-18</td> <td></td> <td>6 x 9 4 4</td> <td>W</td> <td></td> <td>No</td> <td></td> <td>3 1½ 1½</td> <td>No No</td> <td></td>		MS269HE MS4010 MS4012		49.95 29.95 29.95	25 20 30	88 68	4	60-18 100-16 50-18		6 x 9 4 4	W		No		3 1½ 1½	No No	
MS5566 79.95 40 88 4 4520 6 x 9 3 No F 3 No Bass-reflex enclosure. MS530 69.95 60 90 4 80-21 3/4 3 No S S S S S S S S		MS355 MS4620		19.95 39.95 79.95	10 30 60	88 68 90	4 4 4	120-16 60-18 45-20		4 x 6 6 x 9	2		No	FF	1½ 1¼	No No	
MS550 MS590 99.95 149.95 100 149.95 90 149.95 100 149.95 90 25 4 8 60-20 64 4 60-20 4 4 4 3 4 4 No 8 S No 8 No 8 As above; honeycomb woofer. As above. As above; honeycomb woofer. As above. MS5600 99.95 100 92 4 60-20 4 3 No 80 S No 8 No 8 S No 8 No 8 S No 8 No 8 S No 8 No 8 S No 8 No		MS6566 MS530		79.95 49.95	40 50	68 90 90	4	45-20 80-21		6 x 9 3 ¹ /2	3		No No	F S S		No No	
MSS600 MSS60WP 99.95 119.95 129.95 100 19.95 125 92 92 4 4 60-20 50-20 4 4 3 50-20 No 50 No 8 No 8 As above. 0 QUART 0M 120KX 0M 130KX 219.00 0M 130KX 60 90 90 4 49-20 4 6 ¹ / ₂ No 5 ¹ / ₄ No F. S 2 ³ / ₂ Yes For pickup trucks, vans, hatchbacks. 0 QUART 0M 120KX 219.00 60 90 4 49-20 6 ¹ / ₂ No F. S 2 ³ / ₂ Yes 0M 160KX 279.00 70 90 4 38-32 6 ¹ / ₂ No F. S 3 ³ / ₄ Yes 0M 19HC 149.00 80 90 4 2.7k-32k T No F. S 3 ³ / ₄ Yes 0M 210KX 299.00 100 90 4 2.5k-20 Hz S 8 No F. S 3 ³ / ₄ Yes 0M 210FC 139.00 100 90 4 26-200 Hz S 10 F. S		MS560 MS590		99.95 149.95	100 150	90 90	4	60-20 60-24		4	3		No No	S S S		No No	As above; honeycomb woofer. As above.
QUART QM 120KX 219.00 60 90 4 49-20 6½ 5¼ No F. S 2% Yes QM 130KX QM 130KX 249.00 50 90 4 49-20 6½ 5¼ No F. S 2% Yes QM 130KX 249.00 70 90 4 38-32 5¼ 6½ No F. S 2% Yes QM 10KX 479.00 90 90 4 38-32 8 No F. S 2% Yes QM 19HC 149.00 80 90 4 2.7k-32k T No F. S 3¼ Yes QM 210TC 139.00 100 90 4 35-200 Hz S 10 F. S 3¼ Yes Yes F. S 3¼ Yes		MS5600 MS5650WP		99.95 119.95	100 100	92 92	4	60-20 50-20		4	3 3		No No	S		No Yes	As above.
0M 210KX 479.00 90 90 4 3.5.32 8 No F, S 3½ Yes 0M 19HC 149.00 80 90 4 2.7k-32k T F, S 3½ Yes 0M 210TC 139.00 100 90 4 2.6k-32k T F, S 3½ Yes 0M 210TC 139.00 100 90 4 2.6k-32k T F, S 3½ Yes 0M 210TC 139.00 100 90 4 2.6k-32k T F, S 3½ Yes 0M 215CX 319.00 50 90 4 49-32 5¼ 2 Yes F, S 2½ Yes 0M 215CX 249.00 80 90 4 49-32 5¼ 2 Yes F, S 2½ Yes 0M 215 Universal 319.00 50 90 4 49-32 5¼ 2 Yes F, S 2½ Yes For BMW 5 series (1988 and newer) and 7 series (1987 and newer). 0M 216 Universal 379.00 70 90	MB QUART	QM 120KX QM 130KX		219.00 249.00	60 50	90 90	4	49-20 49-32		6½ 5¼			No No	F, S F, S	25/1 23/1	Yes Yes	
OM 215CX 319.00 50 90 4 49-32 5½ 2 Yes F.S 2% Yes QM 120CX 249.00 80 90 4 49-32 6½ 2 Yes F.S 2% Yes Yes F.S 2% Yes F.S 2% Yes Yes F.S 2% Yes F.S 2% Yes Yes F.S 2%		QM 210KX QM 19HC		479.00 149.00	90 80	90 90	4	35-32 2.7k-32k						F. S F. S F. S	3¼ ¾	Yes Yes	
OM 215CX 319.00 50 90 4 49-32 5½ 2 Yes F.S 2% Yes QM 120CX 249.00 80 90 4 49-32 6½ 2 Yes F.S 2% Yes Yes F.S 2% Yes F.S 2% Yes Yes F.S 2% Yes F.S 2% Yes Yes F.S 2%		QM 210TC QM 250SUB			100 140	90 90	4	35-200 Hz 26-200 Hz	S S	10				F. S F. S F. S	31/4 43/4	Yes Yes	
OM 216 Universal 379.00 70 90 4 40-32 6½ 2 Yes F, S 2¾ Yes Image: Additional and the stress of the stres of the stres of the stress of the stress of the stress of the		QM 215CX QM 120CX		249.00	80	90	4	49-20		61/2	2 2 2		Yes	F. S F. S	25/1	Yes	
		QM 218 Universal QM 215 Passal		379.00	70 50	90 90		40-32 48-32		6½ 5¼	2		Yes	F. S F. S		Yes	and 7 series (1987 and newer). For Volkswagen Passat,
QM 130K/W 124 219.00 50 90 4 49-32 4½ Yes F, S 2 Yes For dash of Mercedes 200 and 300	(Continued)	QM 130K/W 124			50	90		49-32			-			F, S	2		For dash of Mercedes 200 and 300

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Speakers

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		/	Individua	zie ui	nded Ma		e. Ohme	1002					and the second	(); 5. mar		Cooleec's
MANUFACTURER	Model	Price S	Price 5	Pecone in Pairs)		and the second	Freedomes, Ohno St. (1)			and the second s						50000000000000000000000000000000000000
MB QUART	QM 130K/W 124 Heck	<u> </u>	239.00	60	90	4	49-32	ſ	41/2			Yes	F, S		Yes	As above but for rear deck.
(Continued)	QM 218CX QM 325CX QM 328CX		379.00 499.00 549.00	60 80	90 90 90	4	38-32 49-32 38-32		6½ 5¼ 6½	2 3 3		Yes Yes Yes	F, S F, S	21/2 23/1 21/2	Yes Yes Yes	
	QM 335CX QM 215 Golf		779.00 319.00	100 50	90 90	4	30-32 49-32		8 5¼	32		Yes	F, S F, S F, S F, S	31/4	Yes	
MOS	ST-30 ST-35 ST-45		79.00 89.00 99.00	50 50 50	91 91 91	4 4 4	5k-20k 5k-20k 5k-20k	Ţ			A		S F S		Yes Yes Yes	
	CSX-430 CSX-435 CSX-445		189.00 199.00 209.00	40 40 40	90 90 90	4	95-20 95-20 95-20				A	Yes Yes Yes	S F S		Yes Yes Yes	
	CSX-530 CSX-535 CSX-545 CSX-630		219.00 229.00 239.00	50 50 50	90 90 90 89	4	90-20 90-20 90-20		5¼ 5¼ 5¼		A P	Yes Yes Yes	S F S		Yes Yes Yes	
	CSX-635 CSX-635 CSX-645 CSW-590		239.00 249.00 259.00 199.00	65 65 65 50	89 89	4 4 4 4	80-20 80-20 80-20 90-20		6½ 6½ 6½ 5¼		P P	Yes Yes Yes	S F S		Yes Yes Yes	
	CSW-690 SAT-50 PA-60		219.00 199.00 159.00	65 40 40	90 89 90 90		80-20 80-20 75-20		6½ 4		P	No No No			Yes Yes Yes Yes	
	TU-600 TU-800 TU-1000	125.00 149.00 199.00		75 100 150	90 92 93 90	4	50-800 Hz 45-600 Hz 40-400 Hz	S S	6½ 8 10						Yes Yes Yes	
MEI	TU-1200 SK6525 SK6930	239.00	39.95 59.95	200 30 60	90 92	4	25-250 Hz 60-16 40-16	S	12 6½ 6 x 9	23		No No	F	2½ 3½	Yes No No	
	DS4025 D85425 DS6525 CK1250	99.95	69.95 79.95 79.95	60 80 80 150	91 91 91	4 4 4	50-26 60-26 40-26 30-400 Hz		4 5¼ 6½	222	- -	No No No	F F	1¾ 1¾ 1¼	No No No	
	CK6950 CK4050 CK1050	33.30	59.95 39.95 49.95	50 25 75	93 92 91 94 94	4	30-400 Hz 30-10 600-18 3k-20k	W S M T	12 6 x 9 4				F F F	4% 3¼ 1¾ 1	No No No	
	CK1025 SK6520 SK4005		39.95 59.95 29.95	75 30 20	91 88	4	6k-20k 65-14	Ť	4	2		No	F -	5/1 11/2	No Yes No	For marine use.
	SK5405 SK6505 DS6935		39.95 39.95 129.95	20 20 150	89 90 94	4 4 4	65-14 60-14 29-28		5¼ 6½ 6 x 9	993 3		No	FFF	1¼ 2½ 3	No No No	
M & M ELECTRONICS	620-15R-4/8 6920-15R-4/8 820-15R-4/8	93.95 100.95 101.95	-	200 200 200	94 95.5 96.9 96	4/8 4/8 4/8	64-1.4 ±6 48-4.6 ±6 32-2.1 ±6	W W W S	6 6 x 9 8				F. S F. S F. S	3 3% 3½	No No No	For sealed enclosure. As above. As above.
	1030-2R-4/8 1230-2R-4/8	153.95 166.95		300 300	96 97	4/8 4/8	64-800 Hz ± 6 72-400 Hz	S S	10 12				F, S F, S	4 47/1	No No	As above. As above.
	1870-25A-4/8 620-15PR-4/8 6920-15PR-4/8	455.95 99.95 105.95		350 200 200	99 94 95.5	4/8 4/8 4/8	±5 24-3.2 ±6 64-3.4 ±6 64-4.8 ±5	S W W	18 6 6 x 9				F, S F, S F, S	71/2	No No	As above. As above.
	820-15PR-4/8 1030-2PR-4/8	105.95 105.95 159.95		200 200	96.9 96	4/8 4/8	32-3 ±6 68-800 Hz ±6	W S	8 10				F, S F, S F, S	3% 3½ 4	No No No	As above. As above. As above.
	1230-2PR-4/8 1560-2PR-4/8 1570-25PR-4/8	175.95 228.95 311.95		300 300 350	97 99.3 96.6	4/8 4/8 4/8	56-3 ±6 60-2.6 ±6 52-2.4 ±6	S S S	12 15 15				F, S F, S F, S	4% 5% 5%	No No No	As above. As above. As above.
	Godfather 6-4/8 Godfather 69-4/8 Godfather 8-4/8 Godfather 10-4/8	108.95 116.95 117.95 178.95		250 250 250 320	95 98.3 97 97.9	4/8 4/8 4/8	$\begin{array}{r} 48-5.2 \pm 6 \\ 56-3.3 \pm 6 \\ 40-4.6 \pm 6 \\ 50 000 \text{ Mm} \end{array}$	S S W W S	6 6 x 9 8				F.S F.S F.S F.S	3 35/1 3 ¹ /2	Yes Yes Yes	As above. As above. As above.
	Godiather 12-4/8 Godiather 15-4/8	193.95 262.95		350 400	97.6 98.5	4/8 4/8 4/8	60-900 Hz ±6 56-1 ±6 32-1.2 ±6	S	10 12 15				F, S F, S F, S F, S	4 47/1 53/15	Yes Yes Yes	As above. As above. As above.
	The Rose 12-4/8 The Rose 15-4/8 505-1A	392.95 540.95		800 1.2k	93.2 92.1	4/8 4/8	48-800 Hz ±6 36-2.6 ±6	S S	12 15				F, S F, S F, S	4 ⁷ /a 6 ¹ /2	Yes Yes	As above. As above.
	505-1A 606-1 Godfather MID	33.95 59.95 94.95		80 120 180	96.8 102 91	8	544-2.6 ±6 128-5 ±6 80-4.9 ±6	M						21/4 17/8	No No	Closed-back midrange; includes crossover.
MOBILE	USW 520	28.95 89.95		80	87.4 93	8	1.2k-18.5k ±6 40-8.6	T	_		P		F, S F, S F, S	25/8 11/4	No No	Includes crossover.
AUTHORITY	USW 545 USW 565 USW 570	139.95 149.95 169.95		150 200 160 220	100 101 104	4 4 4 4	40-8.0 40-9 40-9 40-9.6	***	8 10 12 12				F F F		Yes Yes Yes Yes	
MOHAWK	USW 590 M-15 M-12	199.95 119.00 89.00		220 150 150	106 92 92	4	40-9.8 25-4 35-4	Ŵ	15 15¼ 12	-			F	6¼ 5	Yes No	
	M-10 M-8 M-6.5	69.00 55.00 45.00		125 100 75	91 90 90	4 4	35-4 40-5 45-10	W	10% 8% 6%				F	3 ¹ /4 3 ¹ /4	NO No No	
	M-5.25 M-4 M-3.5		79.00 65.00 49.00	50 40 30	87 90 90	4 4 4	55-10 65-20 95-20	M	4½ 3½	W			FF	2½ 1¾ 1¾	No No No	includes bass blocker. As above. As above.
	M-14	_	45.00	50	92	4	5k-20k	T					C	31	No	Includes crossovers.

Speakers

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MANUFACTURER	f									/*	4	/ 5		/ •	Yes	/
MONDLITHIC Sound	W-700 WA-100	59.00 199.00		125 50 Inc.	91 98	8	40-2 30-200 Hz	S	777				S		TUS	Powered subwoofer; box enclosure.
MDREL ACDUSTICS	57.04 57.05		96.00 114.00	80 120	89 90	6	2.5k-25k 2.5k-25k	Ţ			A		C C C	51 51		Pust using calls and meanate
	57.06 59.13 CR-7 System		139.00 186.00 498.00	160 100 150	91 88	6 4 4	2k-25k 45-5 40-20 ± 3	Ŵ	5 6	2	A	No	S	1		Dual voice-coils and magnets. As above. Wedge-shaped cabinet.
	MDT-101S MDT-104		129.00 107.00	200 80	91 90	6.4 6.4	1.8k-25k ± 3 2k-20k	T T			P		F	11/2 11/4		
	MDT-107H MDT-105S		133.00 144.00	200	95 91 92	6.4 6.4	1.2k-25k 1.5k-25k				P		F S F	2 21/2		
	MDT-106 CDM-95		249.00 209.00	200		6.4 6.4	1.8k-25k ±2 250-5	м			r		F	11/2		
	MCW-162 CW-6 CW-8		179.00 209.00 229.00	120 100 120	90 90 91	4	40-5 35-5 30-3.8	www.	6 6 8				F F F	21/4 2 21/4		
	CW-10 CW-12 CW-15		299.00 319.00 339.00	150 150 200	92 90 91 92 93 93 93 92 89	4	30.3.3 25-3.3 20-2.5	W W W W W W W S	10 12 15				FFF	2 ³ /4 4 ³ /4 5 ¹ /4		
	PP-10 Coax-162	209.00	189.00	200 60	92 89	4	25-1.5 45-20	ŝ	15 10 6	2		No	F F F	2¾ 2¼ 2¼ 2¼	1	Stereo subwoofer.
	Integra 6 Integra 8 Integra 10		259.00 289.00 349.00	100 120 150 120	91 92 92 89	4	45-25 35-25 30-25		6 8 10	2 2 2 2 2 2	_	NO NO NO	F	21/4 21/4		
	166-M System 226-M System 228-M System		289.00 309.00 499.00	120 150 150	89 90 90	4	45-20 35-20 35-20		6 8 8	2 2 3	P P P	Yes Yes Yes		21/4 21/4 21/4		
MTX/ BLUE THUNDER	BTW1248 BTW1048	129.95 114.95		150 100	93 92	8	19-2 ±3 21-2.5 ±3	S S W	12 10				F	5½ 4%	No No	4-ohm version available. As above.
	BTW838 BTT16 BTM44	99.95 49.95 59.95		70 100 70	91 92.5 88	8 6 4	25-2.5 ±3 5k-20k ±3 68-5 ±3	IT.	8				FF	3 ³ /4 1 ¹ /1 2 ¹ /1	No No No	As above.
	BTM54 BTM55 BTM64	69.95 47.95 89.95		100 100 120	88 91.5 88	4 8 4	52-5.1 ±3 800-4 ±3 35-3 ±3	MM	61/2				F	2% 2 3%	No No No	Sealed-back midrange.
	BTE12W BTE12S	499.95	459.95	175 175	93 92	4	32-20 ± 3 54-20 ± 3	"	12 12	3		No No	S		No No	Box enclosure. As above.
	BTE10W BTE10S BPE10	439.95 349.95	399.95	125 125 125	92 91 82	4	35-20 ± 3 62-20 ± 3 41-110 Hz	s	10 10 10	32		No No	S S S		No No No	As above. As above. Bandpass enclosure.
MTX/COAXIALS	MTX3501		49.95	30	92	4	± 3 130-15	M		W		No	Ę	1½ 1½	No No	
	MTX4002 MTX4602 MTX5202		89.95 129.95 99.95	45 45 60	91 95 94	4	120-15 100-19 90-19		4 x 6	222		No No	F	1% 2	No No	
	MTX6502 MTX6902 MTX6903		109.95 159.95 189.95	75 120 150	95 96 96	4	100-19 65-19 65-19		6½ 6 x 9 6 x 9	2 2 3		No No	F F F	13/4 3 31/6	NO NO No	
MTX/ELIMINATOR	ESW84/88 ESW104/108	69.95 99.95		100 150	90 91 91.5	4/8 4/8	$50-3.7 \pm 335-3 \pm 329-1.7 \pm 3$	S S S	8 10				F	37/8 45/8	No No	
MTX/	ESW124/128 ESW154/158 RT25	119.95 139.95 17.95		150 150 40	91.5 93 92	4/8 4/8 4	$29-1.7 \pm 3$ 24-2.1 ± 3 3k-40k ± 3	S T	12 15				F	51/1 51/1 21/1	No No No	
ROAD THUNDER	RT3 RTT1	14.95 24.95 49.95		40 50 30	92 92 91 91	4 6 4	$ \begin{array}{r} 3k-40k \pm 3 \\ 4k-27k \pm 3 \\ 5k-20k \pm 3 \\ 5k-20k \pm 3 \end{array} $	T T T					F	21/0	No No	Includes crossover and swivel mount.
	0T1 RTM34 RTM44	19.95 29.95		30 40	69 85	4	180-7.6 ± 3 110-4.2 ± 3	M					F	21/8	No No	Includes capacitor. As above.
	RTM54 RTM62 RTP46	39.95 49.95 49.95		40 60 40	88 88 89	4	74-5.5 ± 3 35-3.5 180-20 ± 3	W	61/2	2		Yes	F F P	2% 3% 1%	No No No	As above; midrange and tweeter in
	MTX15SX MTX25SX		169.95 199.95	40 45	88	4	110-20 ± 3 100-20 ± 3		6½	22		No	S		No No	4 x 6-inch plate. Separate enclosure for each channel. As above.
	MTX35SB MTX45SB	220.05	329.95 419.95	100 150	90 94 97		60-22 ± 3 55-22 ± 3		8 10	233		No No No	S S		No No No	As above. As above. As above.
	MTX55SX MTX65HB MTX62MB	329.95 419.95 299.95		150 150 40	95 91 90	4	80-20 ± 3 50-22 ± 3 40-20 ± 3		10 10 (2)6	323		No No	S S		No No	As above. Enclosure; for Mazda Miata.
	MTX85CF MTX312SX MTX95HB	329.95 499.95	449.95	150 170 200	95 97 87	4 4 4	40-20 ± 3 50-20 ± 3 40-20 ± 3		(2)6 (2)12 12 (2)12	3		No No No	S S S		No No No	Enclosure; for Camaro and Firebird. Separate enclosure for each channel. Enclosure.
	MTX105HB MTX105HBS MTX225HBX	549.95 849.95	599.95	250 250 300	90 90 92	4	60-20 ± 3 60-20 ± 3 43-20 ± 3		(2)12 (2)15 15 (4)15	3		NO NO NO	S S S		No No No	As above. Separate enclosure for each channel. Enclosure.
	BX1010 BX1212	299.95 329.95		100 150	96 90 91	4	30-2 ± 3 60-2.2 ± 3	s s	(4)15 (2)10 (2)12 (2)15 5 ¹ / ₄	Ŭ			S S		No No	Enclosed subwoofer. As above. As above.
	BX1515 RMM52 RMM52F	349.95	199.95 199.95	150 50 50	91 89 89	4 4 4	55-2.1 ±3 42-20 ±3 42-20 ±3	2	(2)15 51/4 51/4	22		No No	S † †	1½ 1½	No No	1111/2 x 71/2-inch panel. 115 x 9-inch panel. For 1982 to 1991
	RMM52FCB		199.95	50	89	4	42-20 ± 3		51⁄4	2		No	t	13/8		Firebirds. †17½ x 10-inch panel. For 1982 to 1991 Camaros.
	RMM52CFB RMM52NP		199.95 199.95	50 50	89 89	4	42-20 ± 3 42-20 ± 3		5¼ 5¼	2 2		No No	11 ++	13/a 11/2	No No	††Panel. For 1982 to 1991 Firebirds and Camaros. For 1986 to 1991 Nissan Hardbedies.
(Continued)	RMM52TP RMM62		199.95 199.95 219.95	50 50 60	69 89 89	4	$42-20 \pm 3$ $42-20 \pm 3$ $42-20 \pm 3$		51/4 6	22		No	[#	1½ 2%	No No	For 1983 to 1991 Toyota pickups.
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AUDIO/MAY 1992

Speakers

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MAURACTUREN MAURACTUREN TYPE TOTOMINATELY		/			/	/	Me.	. Weiler	' /	,	150	./			/.	-	
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Abs Trugger Number of the second	MANUFACTURER	<u> </u>	A SUN	Jule Party	Beco	ie s		The state of the s	1					in the second		e	Holes
NHMES21 T27.TEMINATION T27.T	NTX/ ROAD THUNDER (Continued)	RMM62M RMM62FP		239.95 219.95 219.95	60 60	89	4	$30-20 \pm 3$ 39-20 ± 3 39-20 ± 3		6½ 6½	22		No No		2%	NO NO NO	For 1990 to 1991 Mazda Miatas. For 1983 to 1990 Ford Rangers.
TEXTEMMUND MT11 MEXAL 49.5 (5) 100 (5) 00 (5) 00 (5) <				199.95 219.95		89 89		42-20 ± 3 39-20 ± 3			22				11/2		GMC S-15. For 1988 to 1991 Ford Mustangs.
Minimize Minimiz	MTX/TERMINATOR	MTM34 MTM44/48 MTM54 MTM64/68 MTM74/78 MTP462	39.95 47.95 59.95 84.95 89.95 89.95		30 70 100 120 180 30	83 88 88 88 88 91 83	4 4/8 4/8 4/8 4/8 4	$ \begin{vmatrix} 100-7 \pm 3 \\ 58-5 \pm 3 \\ 52-5.1 \pm 3 \\ 35-3 \pm 3 \\ 50-4 \pm 3 \\ 100-20 \pm 3 \\ 36.5-2.2 \end{vmatrix} $	M M W W	31/2	2	5			11/1 13/4 21/1 25/1 33/1 31/2 13/4	No No No No No No	Includes crossover. As above. As above. 6 x 9-inch bolt pattern. 4 x 6-inch plate.
Mitry Crick Mitry C		MTW88 MTWDVC84	94.95 89.95		70 50	87	8	$\begin{array}{r} 33-2 \pm 3 \\ 37-2.1 \pm 3 \\ 36-2.1 \pm 3 \\ 27.5-1.8 \end{array}$	S	8				F	344 344	No	As above. Dual voice-coils.
UBSCLE MAGNET UES-32 UES-72 UES-		MTW108 MTW107C104 MTW124128 MTW124128 MTW124128 MTW1524 MTW152 MTW154 MTW154 MTW154 MTW156 MTW150 MTW150 T284 T2104 T2124	99.95 96.95 102.95 99.95 139.95 134.95 169.95 199.95 229.95 129.95 129.95 159.95		100 70 150 150 150 150 150 150 170 170 100 100 150	89.5 89.5 89.5 90 90 93 93 94 84 90 91,4	8 4 2 4 8 4 4 4 4 4 4 4	$\begin{array}{c} 23 & 1.8 \pm 3\\ 24 & 2 \pm 3\\ 26 & 1.9 \pm 3\\ 26 & 5.2 \pm 3\\ 22 & 2 \pm 3\\ 24 & 2.1 \pm 3\\ 30 & 2 \pm 3\\ 31 & 2.2 \pm 3\\ 36 & 2 \pm 3\\ 36 & 2 \pm 3\\ 31 & 2 \pm 3\\ 26 & 2 \pm 3\\ \end{array}$	S S S S S S S S S S S S S S S S S S S	10 10 12 12 15 15 15 15 15 18 8 10 12					4% 4% 5% 5% 5% 6% 6% 6% 6% 6% 6% 5% 4% 5% 3% 4% 5%	NO NO NO NO NO NO NO NO NO NO NO NO	As above. Dual voice-coils. Vented pole piece. As above. Dual voice-coils. Vented pole piece. As above.
AKAMICHI SP-80 SP-55 SP-56 SP-560 250.00 SP-550 40 SP-550 250.00 SP-560 40 SP-560 66 SP-560 4 Sb-22k 5 SP-560 6 SP-560 40 SP-560 5 SP-560 200.00 SP-560 40 SP-560 5 SP-560 200.00 SP-560 40 SP-560 6 SP-560 4 SP-560 5 SP-560 200.00 SP-560 6 SP-560 4 SP-560 5 SP-560 200.00 SP-560 40 SP-560 6 SP-560 4 SP-52 5 SP-560 2 SP-560 7 SP-560 7 SP-560 7 SP-560 7 SP-50	MUSCLE MAGNET	UES-53 UES-72 UES-746 UES-10 UES-2	60.00 45.00 125.00 80.00 160.00 110.00	90.00 250.00 160.00 320.00 220.00	175 120 400 175 400 250	95 94 98 97 95	8 8 8 8 8	25-3.0 50-5.0 40-4.5 52-5.0 30-4.0 30-4.0	W W W W	10 10 12 12 15 15				F F F	4 4 5 ¹ /2 5 ¹ /2 6 ¹ /2		As above. As above. As above. As above. As above.
SP-300 SP-30 SP-30 SP-30 SP-30 90.00 SP-30 SP-30 100 SP-30 SP-30 100 SP-30 SP-4 88 SP-44 4 SP-20 SP-4 33/2 SP-20 SP-4 W SP-4 No SP-20 SP-4 No SP-20 SP-4 No SP-20 SP-4 No SP-20 SP-20 SP-4 No SP-20 SP-20 SP-4 No SP-20	NAKAMICHI	SP-15 SP-5 SP-55C SP-46 SP-1010	230.00	250.00 200.00 250.00 100.00	40 40 80 20 200	86 87 86 86 87 90	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	45-5 1k-10k 5k-22k 50-22 90-20 25-4	W M T	6 5½ 4 x 6 9%	2 W	Ä		F F C F F	25% 15% 23% 13% 41%	Yes Yes Yes Yes Yes	†Optional angle mount, Model MK-1.
CS-52	MEAD	SP-200 SP-80 SP-50 SP-40 SP-10	20.05	300.00 300.00 190.00 130.00	80 160 80 40 40	86 92 87 88 86	4 4 4 4	50-20 30-1 50-6 75-20 2.5k-22k	Т	51/6 71/6 51/4	2	t	No	F F C	13/1 37/1 11/2 17/1	Yes Yes Yes Yes Yes	External crossover required.
MS-5.2PM 47.80 60 92 4/8 70.5 W 5%4 F Yes Sealed-back midrange. MS-5.2SM 45.80 45 92 4/8 500-7.5 M 6½ F Yes Yes Yes MS-206P 65.80 100 94 4/8 40-2 W 8 F Yes Yes Yes MS-4010P 105.80 150 92 4/8 30-2 W 10 F Yes Yes Yes MS-6012P 137.80 180 94 4/8 30-2 S 10 F Yes Yes Yes MS-6012P 137.80 200 94 4/8 22-1 S 12 F Yes Yes Yes MS-6015P 157.80 200 94 4/8 20-1 S 15 F Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes<		CS-5.25 CS-5.25W CS-6.25 CS-8.0 CS-2.0	99.00 109.00 179.00 179.00 65.00		100 100 150 150 50	89 89 89 91 89	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	± 1.5 47-10 ± 2 47-16 ± 2 45-4 ± 3 29-3 ± 2 1.5k-18k ± 3 2.5k-20k	W W T	5¼ 6½				F F F F	234 234 31/2 31/2 11/4	Yes Yes Yes Yes Yes	
plate.	NIGHTSTALKER	NS-5.22M NS-5.25M NS-306P NS-308P NS-4010P NS-6012P NS-6012P NS-6012P NS-6015P NS-6015P NS-6015P NS-6015P NS-811 NS-711 NS-711 NS-711 NS-702 NS-602X NS-602X NS-602X NS-802X	47.80 45.80 65.80 105.80 169.80 137.80 117.80 157.80 23.80 39.80 35.80 135.80 67.80 71.80 111.80	59.80	60 45 100 150 250 25 30 40 40 60 60 100 120	92 92 94 94 94 94 95 95 95 95 92 95 92 92 92 92	4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8 8 4/8 8 8 8	90-6 70-5 500-7.5 40-4 20-2 20-2 22-1 22-1 22-1 22-1 20-1 5k-20k 3k-20k 3k-20k 4k-20k 1.5k-18k 80-20 50-20 40-20	¥ ™ ¥¥¥≈≈≈≈	51/4 61/2 8 10 10 12 12 12 15 4 51/2		• • • • • • • • • •	Yes Yes Yes			Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	
	(Continued)	NSC-10	279.90		200	98	8	50-1.5	w	10							

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NIGHTSTALKER (Continued)	NSC-12 NSC-15	339.90 359.90		300 300	99 100	8	40-1.2 30-800 Hz	S W	12 15				F		Yes Yes	
NUMARK	ASW8 ASW10 ASW12 AST42 AST44 ND-200-8 ND-200-10 ND-200-12 NS-100-8 NS-100-10	93.50 97.95 101.95 26.50 41.95 375.00 419.00 439.00	419.00 479.00	200 200 200 50 100 200 200 200	95 95 96 99 100 94 95 96 95 96	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	36-3.5 29-3 28-2.5 4k-20k 5k-20k 36-20 29-20 28-20 36-20 29-20 28-20	W W T T	8 10 12 8 10 12 8 10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A A A A A A A A A A A A A A A A A A A	No No No No No	S S S S S		No No No Yes Yes Yes Yes	Carpeted box enclosure. As above. As above. As above.
	NS-100-12 AAS100 AAS150 AAS200	719.00 769.00 799.00	499.00	200 200 200	96 94 95 96	4 4	28-20 36-20 29-20 28-20		12 8 10 12	2 2 2 2 2	Â	No No No			Yes Yes Yes Yes Yes	As above. As above. As above. As above. As above.
ORION	XTR1S XTR4 XTR4 XTR5 XTR6.5MB XTR6.5 XTR8 XTR10 XTR10 XTR10 XTR112 XTR10 XTR10B XTR10BB XTR10BB XTR10BB XTR10BB XTR12BB CO6.5 CO8 CO10 CO12 CO15	42.00 45.00 67.50 89.50 127.50 135.50 116.00 121.00 121.00 227.00 142.00 142.00 205.00 84.00 93.00 112.50 123.50 171.00		100 120 60 80 200 400 400 800 800 800 800 800 800 200 400 400 400 400 400	89 91 88 89 97 97 91 91 90 92 94 93 94 94 88 90 91 92 93	8 8 4 4 4 8 4 4 4 4 4 4 4 4 4 4 4 4 4	900-19 1k-19k 85-4 47-4 60-2 55-2 36-2.7 30-2 29-1.5 18-1.2 22-1 45-2.7 40-1.5 38-1 38-2.5 38-2.5 32-2 30-1.5 19-1.2 23-1	TT MM MM SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	6 ¹ / ₂ 8 10 12 15 8 10 12 6 ¹ / ₂ 8 10 12 15					3/4 1 1 ³ /4 2 ¹ /4 2 ¹ /4 2 ¹ /4 3 ³ /2 3 ³ /4 4 ¹ /4 5 3 ³ /2 3 ³ /4 4 ¹ /4 5 3 ³ /2 3 ³ /4 4 ¹ /4 5 3 ³ /2 3 ³ /4 5 3 ³ /2 3 ³ /4 5 5 3 ¹ /2 3 ³ /4 5 5 5 5 5 5 5 5 5 5 5 5 5	No No No No No No No No No No No No No	Replaceable voice-coil. As above. With dual voice-coils, \$128.00 each. As above but \$159.00 each. As above but \$159.00 each. As above but \$150.00 each. As above but \$246.00 each. As above but \$178.00 each. As above but \$216.00 each. As above but \$216.00 each. As above but \$233.00 each. As above but \$233.00 each. As above but \$233.00 each.
)WI	M-4F M-5CX 900 202 203 2300 2301	65.00 89.00 199.00	129.00 178.00 159.00 179.00 399.00 299.00	30 40 30 80 100 60 60	90 94 93 92 92 85 90	4 4 8 8 8 4 6	70-18 ± 3 50-20 ± 3 40-450 Hz 90-20 90-20 50-20 65-20	s	4 51⁄4 51⁄4	2		No	F F S S F F	63/4 1 11/2 13/4 13/4	No Yes Yes Yes Yes Yes Yes	As above but \$176.00 each. For vans and trucks. As above. For vans, trucks, and RVs. As above.
OZ AUDIO	0Z-25 02-100 02-130 02-180 02-200L 02-200L 02-250L 02-250L 02-250L 02-300L 02-300L 02-300H	97.50 116.90 137.50 184.50 184.50 237.50 237.50	247.50 145.00 172.50		90.9 90.9 91.5 91 92.4 92.4 92.6 92 92.2	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 1.5k-20k\\ \pm 1.5\\ 115\cdot9\ \pm 2\\ 90\cdot6\ \pm 2\\ 32\cdot5\ \pm 2\\ 28\cdot2\ \pm 2\\ 45\cdot2\ \pm 2\\ 18\cdot1.2\ \pm 2\\ 18\cdot1.2\ \pm 2\\ 18\cdot1\ \pm 2\\ 32\cdot1\ \pm 2\\ \end{array}$	T	51/4 61/2 8 10 10 12 12		Ρ		- - 	1 1 1 21/2 31/8 31/2 31/2 41/4 41/4 5 5	Yes Yes Yes Yes Yes Yes Yes Yes Yes	A3 6UUVE.
ACIFIC SOUND I SIGNAL	PAC40 16	399.95	149.95	60 120	90 91	4	60-21 20-200 Hz	s	4 (2)6½	2	P	No	S S		No No	lsobaric subwoofer.
ANASONIC	EAB-H55		90.00	100	92	4	40-22 + 0,-10		51⁄4	W	A			21/8	Yes	
	EAB-A63		45.00	60	92	4	40-20 + 0,-10		61/2	2		No		11/1	Yes	
	EAB-A45		45.00	40	91	4	50-22 + 0,-10		4	w	A			1¾	Yes	
	EAB-A43		35.00	40	91	4	50-20 + 0,-10		4	2		No		1¾	Yes	
	EAB-T3 EAB-M10		140.00 130.00	150	90 90	4	2k-25k + 0,-10	T						5/8		
	EAB-W16		160.00	150 150	90 89	4	500-10 +0,-10 40-7	M W	61/2					11/18		
	EAB-820	69.00		45	82	4	40-7 + 0,-10 400-10	M	072					1		Cantas abound another
	EAB-ST1		59.00	100	92	4	+ 0,-10 5k-25k	T			P		c	5/8	Yes	Center-channel speaker.
	EAB-W25 EAB-H67 EAB-H65 EAB-H45 EAB-H98 EAB-H95 EAB-H95 EAB-H95 EAB-H93 EAB-533 EAB-531A EAB-T501 EAB-T501 EAB-466	129.00	109.00 79.00 159.00 119.00 99.00 65.00 30.00 35.00 45.00 75.00	300 120 60 200 120 100 80 40 40 40 50	92 93 92 94 93 93 93 90 93 90 93 92	444444444444	25-5 30-25 35-22 30-22 30-22 40-20 40-20 100-20 50-15 50-15 50-16 ± 3 40-22 ± 3	S	10 6½ 6½ 6 x 9 6 x 9 6 x 9 6 x 9 3½ 5 5 6½	3 2 2 3 3 2 2 W W 2		No		43% 25% 17% 134 3 234 234 13% 13% 13% 11%	Yes Yes Yes Yes Yes Yes Yes Yes Yes	
PAS	EAB-4152 HL-2880CNP	320.00	55.00 89.00	50 60 400	90 92 99	4 4 8	60-22 ± 3 45-22 ± 3 25-2.5	S	4 x 6 4 x 10 18	2 2 2	A	No No	F	13/8 31/8	Yes Yes	+Optional
	ER-1580CNP 15-5480 MB-1280C MB-1080C	198.00 96.00 198.00 198.00		300 120 300 300	100 96 99 98	888	50-2.5 55-5 80-3 80-4	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	15 15 12				F, S F, S F, S F, S F, S	8 6 ¹ /4 5 4 ³ /8		†Optional.

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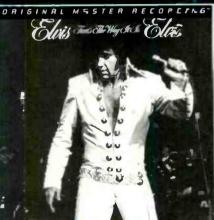


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MANUFACTURER	the odd	A LICE		Reco	A C	news.	inpeo in the second			in the						Moles
PETRAS	H0T-1 SMT-1 100DT4 GW44 CP48 CP58 G54 GA64 GA64 GA64 CX104 CX124 SW1580 HS104	20.00 49.00 39.00 35.00 49.00 49.00 75.00 85.00 76.00 100.00 199.00 99.00	40.00 98.00 78.00 78.00 98.00 98.00 150.00 170.00 152.00 200.00 398.00 198.00	60 100 60 80 80 150 150 200 200 400 300	98 95 95 98 89 91 91 91 93 93 93 93 93 93 93	8 4 4 8 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5k-25k 5k-25k 3k-22k 500-8 80-8 500-6 80-5 40-3 35-3 25-2.5 25-2.5 20-800 Hz 30-2	T T M M M W W W W S S S	6 ¹ / ₂ 8 10 12 15 10					7/8 1/2 11/8 17/8 2 21/4 21/2 3 31/2 41/8 5 7/8 37/8	No No No Yes Yes No No No Yes Yes Yes	8-ohm version available. Sealed-back midrange. 8-ohm version available. As above. As above. As above. Dual voice-coils. For sealed enclosure; with dual voice- coils, 5109.00 each or \$218.00 per
	FX104 HS124 HS124 HS154 HS184 PG64 PG84 PG84 PR104 PR104 PR124 PZ104 PZ124 PZ124 PZ154	110.00 119.00 139.00 349.00 85.00 95.00 140.00 150.00 165.00 175.00 195.00	220.00 238.00 260.00 278.00 698.00 170.00 190.00 280.00 300.00 330.00 350.00 390.00	300 300 300 200 200 350 350 350 350 350 350	93 93 94 96 91 93 94 94 95 95 95 95	444444444444444444444444444444444444444	30-2 25-1 25-1 20-800 Hz 20-800 Hz 40-3 35-3 28-2 24-1 28-2 24-1 20-800 Hz	S S S S S S S S S S S S S S S S S S S	10 12 12 15 18 6½ 8 10 12 10 12 10 12					43% 43% 55% 55% 71/2 3 31/2 43% 51/4 43% 51/4 51/4 57%	Yes Yes Yes Yes No No Yes Yes Yes Yes	pair. As above but \$129.00/\$258.00. As above but \$149.00.\$298.00. For sealed enclosure. 8-ohm version available. As above. As above. As above. As above.
PHASI LINIAR	PL1352 PL1400 PL2460 PL2520 PL2650 PL2690 PL3690 PL4001 PL4001 PL4002 PL6502 PL6502 PL6503 PL6903 PL6400/48		60.00 89.00 130.00 149.00 169.00 269.00 89.00 129.00 169.00 199.00 99.00	25 35 40 35 160 80 250 70 80 120 180 40	88 88 91 88 90 92 92 88 91 90 90 †	4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 110-22 \pm 3\\ 65-22 \pm 3\\ 65-22 \pm 3\\ 64-20 \pm 3\\ 55-27 \pm 3\\ 38-24 \pm 3\\ 36-27 \pm 3\\ 36-27 \pm 3\\ 65-22\\ 65-22\\ 55-21\\ 34-21\\ 65-10 \pm 3\\ \end{array}$	M	31/2 4 51/4 61/2 6 x 9 6 x 9 4 61/2 6 x 9	W W 2 2 2 2 3 W 2 2 3		No No No No No No		11/2 13/4 13/4 13/4 13/4 13/4 13/4 13/4 13/4	No No No No No No No No Yes	4 x 6-inch plate. †Dual voice-coils: 89 dB SPL at
	PLC525/48 PL2525 PLS800/48 PLS1000/48 PLS1200/48	99.00 129.00 169.00	119.00 300.00	60 60 100 125 165	t 88 t t	† 4 † †	$60-9 \pm 3 40-21 \pm 3 30-5 \pm 3 20-3.5 \pm 3 20-2.5 \pm 3$	M S S S	5 ¹ /4 8 10 12		P	Yes	F C F F	21/8 21/8 41/4 47/8 57/8	Yes No Yes Yes Yes	4 ohms, 87 dB SPL at 8 ohms. †As above. †Dual voice-coils: 88 dB SPL at 4 ohms, 86 dB SPL at 8 ohms. †Dual voice-coils: 90 dB SPL at 4 ohms, 88 dB SPL at 8 ohms. †Dual voice-coils: 92 dB SPL at 4 ohms, 90 dB SPL at 8 ohms.
	PT5 PT75	150.00	119.00	60 80	88 90	6	3k-21k ±3 4k-20k ±3	T			P P		C C	13/8 13/8	Yes Yes	
PHILIPS	GTM420 GTM520 GTM620 GTM630 GTM830 GTM839 PR5502 PR5602 PR5602 PR5802		129.00 149.00 164.00 179.00 189.00 214.00 389.00 459.00 519.00	80 100 120 200 200 80 150 200	90 90 91 91 91 87 88 89	4 4 4 4 4 4 4	45-25 45-25 30-25 30-25 28-25 28-25 40-25 34-25 30-25		4 51/4 61/2 61/2 8 6 x 9 51/4 61/2 8	222333222		No No No No Yes Yes Yes		13/4 17/8 23/8 23/4 31/2 23/4 31/2 33/4	No No No No No No No	
PHOENIX GOLD PIONEER	SP65 TS-C1301	80.00	210.00	100 150	93 90	4	38-3 ± 3 40-25	S	6 ¹ /2 5 ¹ /4	2	Р	Vee	F	31/2	Van	
	TS-C1001 TS-TRX1000 TS-TRX800		200.00 420.00	150 250	90 94	4	55-25 45-23		4 10	2 3	P	Yes Yes Yes	F, S F, S S	2	Yes Yes Yes	Separate carpeted enclosure for each channel.
	TSC-1601 TSW-2018C TSW-2018C TSW-2018C TS-M133 TS-M101 TS-M371 TS-T31 TS-T31 TS-T35 TS-W150	100.00 85.00 70.00	290.00 230.00 105.00 105.00 90.00 280.00 65.00 65.00	200 150 400 300 250 150 150 150 150 100 80 150	91 90 93 91 88 90 88 90 88 90 89 91	4 8 8 4 4 4 4 4 4	50-22 18-3.5 ± 3 18-4 ± 3 20-6 ± 3 38-11 55-20 60-20 2.5k-35k 2k-25k 2k-25k 2.5k-30k 35-6	S S M T T W	8 6 12 10 8	22	P P P	Yes	84. 88888888888888888888888888888888888	21/8 51/4 45/8 33/4 21/8 2 15/8 3/4 1 3/4	Yes Yes Yes Yes Yes Yes Yes	As above. For sealed enclosure. As above. As above. Includes 4 x 6-inch mount. Includes crossover. Separate cylinder enclosure for each
	TS-P461 TS-6995 TS-6985 TS-A6908 TS-A6907 TS-A6905 TS-A6903 TS-6903 TS-T21 TS-T87 TS-T87 TS-T87		160.00 300.00 260.00 220.00 160.00 140.00 100.00 70.00 105.00 95.00 400.00	150 200 200 160 120 100 80 150 150 200	90 94 93 93 93 92 92 90 90 90	444444444444444444444444444444444444444	60-25 28-32 29-28 28-30 28-27 30-26 35-23 35-20 2.4k-26k 180-24	ŢŢ	3½ 6 x 9 6 x 9	2 4 3 4 4 3	P & & & & & & & & & & & & & & & & & & &	No No No No No No		1 5% 3 ¹ /2 3 ¹ /4 1 15%	Yes Yes Yes	channel. Biamp capable.
Centinued)	TS-TRX60 TS-TRX50 TS-TRX50 TS-TRX40		400.00 300.00 230.00 165.00	200 150 120 100	90 91 90 90	4 4 4	45-24 55-24 65-23 75-23		8 6½ 5¼ 5	2 2 2 2 2 2	A A A	No No No No	S S S		Yes Yes Yes Yes	For trucks. As above. As above. As above.

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	the cool	11.00	Price S	ecomo	13 19 19		Pedanc,						and the second	Contemport	and	Moles
MANUFACTURER PIONEER	TS-X300	(215.00	120	89	4	50-30		4x51/2	- 4		No	s		Yes	/
(Continued)	TS-X200 TS-X100 TS-66		135.00 105.00 48.00	80 60 40	89 89 90	4 4	65-30 80-20 180-18		4 4 51⁄4	32	Å	No No No	S S		Yes	
	TS-44 TS-879 TS-877		38.00 65.00 42.00	40 40 40	88 88 88	4	180-18 90-20 90-20		4 3½ 3½	2		No No No	S F F	1½ 1½	Yes	For GM, Ford, Chrysler, and VW cars. As above.
	TS-1018 TS-1250		65.00 80.00	40 50	88 91	4	50-20 60-20		4 5	2	A A	No No	F	1½	Yes	For Toyotas, Mitsubishis, and Plymouths.
	TS-A1390 TS-469 TS-468		85.00 82.00 72.00	100 40 40	90 89 89	4	45-24 50-20 50-20		5¼ 4 x 6 4 x 6	2 3 2	A A A	No No No	F F	1½ 1%		For GM and VW cars. As above,
	TS-467 TS-A5705 TS-A5703		50.00 120.00 100.00	40 120 100	89 90 90	4 4 4 4	60-20 40-24 40-23		4 x 6 5 x 7 5 x 7	3	Â	No No No	FF	1%	Yes Yes	As above. Fits 6 x 8-inch hole. As above.
	TS-MR165 TS-MR163 TS-W301C	100.00	200.00 150.00	120 100 400	90 90 93		35-21 38-20 18-3.5 ± 3	s	6½ 6½ 12	2	Å	No No	F	35% 51⁄4	Yes Yes	For marine use. As above. Sealed enclosure; free-air version, Model TS-W301F.
	TS-W251C TS-W201C	85.00 70.00		300 250	91 91	4	$18-4 \pm 3$ 20-5 ± 3	S S	10 8					45% 33%		Sealed enclosure; free-air version, Model TS-W251F. Sealed enclosure; free-air version,
	TS-W161 TS-A1680		130.00 160.00	150 150	91 91	4	30-6 ±3 35-30 ±3	M	61/2	3	A	No	F	2 ¹ /8 2 ¹ /8	Yes	Model TS-W201F.
	TS-A1660 TS-G1622 TS-G1620		105.00 70.00 50.00	150 60 60	91 92 92	4	35-25 ± 3 40-20 ± 3 40-20 ± 3		6½ 6½ 6½	2 2 W	A A A	No No	F F F	21/8 17/8 17/8	Yes Yes Yes	
	TS-A4105 TS-A4103 TS-A4605		135.00 115.00 120.00	120 120 50	92 91 89	4	38-25 ± 3 38-23 45-30 ± 3		4 x 10 4 x 10 4 x 5	3 2 2	A A A	No No No	F F F	3 3 1½	Yes Yes	
	TS-G1022 TS-G1020 TS-A1090		65.00 43.00 85.00	40 40 50	91 90 90	4	50-20 ± 3 50-16 ± 3 50-24		4 x 6 4 4	2 ₩ 2	Â	No No	F F	1¾ 1¾ 1¾		
	TS-A1070 TS-A1670 TS-A1540		55.00 130.00 90.00	50 120 100	90 91 91	4 4 4	50-21 35-26 35-24		4 6½ 6½	2 3 2	Å	No No No	F F	11/2	Tes Tes	
POLK	C4	349.95		200	94 90	†	35-150 Hz	S	(4) 6 x 9 12			No	S F	454		†2, 4, or 8 ohms. Compound isobaric, bandpass enclosure.
	MM 1225 MM 1200 MM 2200	199.00	79.90 119.90	300 75 75	92 92	4/8	20-750 Hz 3.5k-20k ±3 1.75k-20k	T	12	2	P A/P	Yes	F, S	470	Yes Yes	Midrange and tweeter module.
	MM 3000 MM 300		179.90 159.90	100	92 90	4	±3 2k-26k ±3 150-20 ±3	т	31/2	2	A/P		F, S	11/8 13/4	Yes	
	MM 3500 MM 4500 MM 4510		54.90 89.90 99.90	50 50 50 50	89 89 88 89	4	120-17 ±3 80-18 ±3 60-3 ±3	w	3½ 4½ 4½	Ŵ			F F, S F, S	1½ 1% 1%	Yes Yes Yes	
	MM 4600 MM 4620 MM 5000		69.90 119.90 99.90	50 75	90 87	4 4 4	75-15 ±3 120-20 ±3 50-15 ±3		4 x 6 3½ 5¼	2 W			F, S F, S	2 1% 1%	Yes Yes Yes	Fits GM vehicles. Fits 4 x 6-inch hole.
	MM 5510 MM 5520 MM 6510		119.90 139.90 139.90	100 75 100	89 89 90	4 4 4	40-3 ±3 40-20 ±3 35-2 ±3	w w	5¼ 5¼ 6½	2			F, S F, S	2½ 2½ 2¾ 2¾	Yes Yes Yes	
	MM 6520 MM 6930 MM 8002 MM 1025	79.90 129.90	179.90 229.90	100 100 150 200	90 89 90 90	4 4 4 4	35-20 ±3 34-20 ±3 30-1.5 ±3 20-1 ±3	SS	6½ 6x9 8 10	2 3			F, S F, S	3	Yes Yes	
	MM 1245 MM 1255 MM 2255	129.90	179.95 199.95 249.90	50 100 100	88 89 89		$\begin{array}{c} 20 \cdot 1 \pm 3 \\ 60 \cdot 20 \pm 3 \\ 40 \cdot 20 \pm 3 \\ 40 \cdot 22 \pm 3 \end{array}$	ľ	4½ 5¼ 5¼	2 2 3	A/P A/P A/P	Yes Yes Yes	F, S F, S F, S	13/4 21/2 21/2	Yes Yes Yes	Tweeter level control. As above. As above.
	MM 2265 MM 3045		269.90 319.90	100 50	90 88	4	35-22 ± 3 60-26 ± 3		6½ 4½	32	Â/P A/P	Yes	F, S F, S	2% 1%	Yes	As above. External crossover with tweater level control.
	MM 3055 MM 3065 MM 3080		349.95 369.95 499.90	100 100 150	89 90 89	4 4 4	40-26 ± 3 35-26 ± 3 30-26 ± 3		5¼ 6½ 8	2 2 3	A/P A/P A/P	Yes Yes Yes	F, S F, S F, S	21/2 25/0 31/4	Yes Yes Yes	As above. As above. As above.
POLYDAX	DTI01 TWD25M1 TW025A1		70.00 75.00 75.00	50 50 50	94 92 92	8 8 8	3.5k-27k 5k-20k 5k-20k	T T T					F F F	1		
	DW74C HIF13JVX HIF17JVX		35.00 99.99 110.99	60 30 30	93 87 87	8 4/8 4/8	4.5k-20k 42-5 29-5	T W W	5 6½				FF	3 2½ 3¼		For sealed enclosure. As above.
	TIW60A DTW 100 TI- 25 BACAV FFFG		29.99 79.99	40 40	91 88	4/8 4/8	5k-20k 1.5k-20k	Ť					F	¥4 1¥4		
PREDATOR	PFA-64 PFA-84 PFA-104	59.99 79.99 94.99		65 80 100	89 90 90	4 4 4	50-5 45-5 40-3	W W S	6½ 8 10				F. S F. S F. S	3 35/1 41/2	Yes Yes Yes	
PREMIER	PFA-124 PFA-154 TS-W400	112.99 139.99 300.00		125 150 500	91 92 96	4	35-2 30-2 15-3	S S	12 15 16				F, S F, S	5 6¾ 5	Yes Yes	
1 16 MIEN	TS-903 TS-902 TS-603	300.00	140.00 100.00 130.00	120 100 120	90 93 92 91	4	30-26 35-23 35-26	ľ	6 x 9 6 x 9 6 ½	3 2 3	Å	No No No	F F F	23/4 23/4 23/4 21/8	Yes	
	TS-602		90.00	100	91	1	35-24		61/2	2	Â	No	ŕ	15/1	Yes	
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AUDIO/MAY 1992

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MANUFACTURES	Model		201	201		nsilin/	Dedan Guen									^{vollles}
MANUFACTURER	<u> </u>	/ «· ~	/ ~ `	12	1	<u>*/-</u>	<u>e</u> /	13	*/ *	<u> </u>	~/ \$	\$ 2	*/ *	g 🖌		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
PRESTIGE	PS-400 PS-650		75.00 75.00	50 50	88 89	4	80-20 60-20		4 6½	222		No No	F	1¾ 1¾	Yes Yes	
	PS-651 PS-6950		95.00 120.00	100	89 92	4	50-20 45-20		6½ 6 x 9	22		No	F	2 31/2	Yes	
	PS-6951 PS-6952		140.00	150 100	92 92	4	35-20 40-20		6 x 9 6 x 9	223		No	F	31/4	Yes	
PROFILE	\$310 \$4620		19.95 29.95	20 30	89 90	4	100-18 60-20		3 ¹ /2 4 x 6	W 2		1	<u>ا</u>	11/4	Yes	,
	S410 S420		24.95	30	89 89	4	80-18 80-20		4	W 2			F	13/4	Yes Yes	
	\$510 \$6510		24.95 34.95	30 30	90 91	4	80-18	1	5	Ŵ			F		Yes	
	\$6520 \$6522		47.95 70.00	40	91	4	60-20 40-20		6 ¹ /2 6 ¹ /2	22		Mo	F F F	1 ⁷ /0 2	Yes Yes	
	\$6530 \$6910		54.95 52.95	50 40	91 92	4	60-20 40-18		6 ¹ /2 6 x 9	3		No	F	2 ⁷ /1 2 ¹ /2 2 ³ /4	Yes	
	\$6920 \$6922		69.95 120.00	50 150	92 95	4	40-20 40-20		6 x 9	W 2			F	21/1	Yes	
	\$6930 PR01550	112.95	74.95	60 300	92 100	4	40-20	l "	6 x 9 6 x 9 15	23		No	F	3	Yes	
	PR01250 PR01050	99.95 87.95		300 250	97	4	32-3 36-3	I W	15 12 10				FF		No No	
	PR0840 PR0630	74.95		150	93 90	4	38-4 30-2	WWW	8				F		No No	
	PR0525 PR0415	50.00		50	90 90 93	4	40-3	M M T					F		No	
	TW1A TW2		59.95 39.95	100	93 93	4	2k-20k 2k-22k	T T					F		Yes Yes	
DVI C	TW3		24.95	40	92	4	2k-20k	T			P		F, S		Yes Yes	
PYLE	NW830.4 NW1040/4	89.95 99.95		250 300	91 91	4	48-2.4 ± 3 46-2.4 ± 3	555555555555555555555555555555555555555	8				F	41/0 47/4	Yes Yes	
	NW1240/4 NW1540/4 PW860/4	115.95		300	92 94	4	50-2.5 ± 3 43-2.5 ± 3	S	12 15	[F	5 ¹ /2 6 ³ /4	Yes Yes	
	PW1070/4	119.95 169.95		280	93 93	4	46-2.8 ± 3 37-2.3 ± 3	S	8	1			F	4 43/4	Yes Yes	8-ohm version available. As above.
	PW1270/4 PW1570/4 PW1870/4	189.95 205.95		420	94 95	4	43-2.5 ±3 47-2.5 ±3	S	12 15			1	F	5% 6½	Yes Yes	As above. As above.
	PW1070D PW1270D	239.95		500 400	96 93	4	40-2 ± 3 60-2.5 ± 3	S	18 10				F	7 ⁷ /1 4 ³ /4	Yes Yes	As above. Dual voice-coils.
	PW1570D PW870/4	195.95 214.95		420	94 95	4	41-2 ±3 45-2.3 ±3	S S S S	12 15				F	55/8 61/2	Yes Yes	As above. As above.
	PW1080/4 PW12100/4	149.95 229.95		350 450	93 93	4	40-2.5 ± 3 39-2.4 ± 3	S	8 10				F	4 43/1	Yes Yes	
	PW12100/4 PW15100/4 PW18100/4	265.95		500 550	94 95	4	41-2 ±3 47-2.2 ±3	S	12 15				F	5¼ 6%	Yes Yes	
	DW5210/4 DW6516/4	374.95 39.95		600 120	96 90	4	44-2 ± 3 75-8.5 ± 3	S W	18 51⁄4			-	F	7 ⁷ /1 2 ³ /1	Yes Yes	8-ohm version available.
	DW6920/4 DW820 4	48.95 59.95		160	90 91	4	$63-4 \pm 3$ $67-5 \pm 3$	W	6 ¹ /2 6 x 9				F F F	23/4 33/4	Yes Yes	As above. As above.
	DW1020/4 DW1220/4	61.95 70.95		200	91 91	4	$52-3 \pm 3$ 50-3.8 ± 3	S S S	8 10				F	4	Yes Yes	As above. As above.
	DW1540/4 DW5216/4	77.95		240 280		4	47-3.5 ± 3 44-3 ± 3	S	12 15				F	5 ¹ /2 6 ³ /4	Yes Yes	As above. As above.
	DW6520/4 DW840/4	47.95 58.95		140 180	90 90	4	$75-8.5 \pm 3$ $55-3.5 \pm 3$	WW	5¼ 6½				F	25/8 31/4	Yes Yes	As above. As above.
	DW1040/4 DW1240/4	83.95 90.95		240 260	91 91	4	44-2.8 ± 3 44-2.7 ± 3	5 5 5	8 10				F	41/4 43/4	Yes Yes	As above. As above.
	DW1240/4 DW1560/4 RP6500	99.95 129.95 132.95		280	92 94		49-2.5 ± 3 46-2.7 ± 3	S	12 15				F	5½ 6¾	Yes Yes	As above. As above.
	RP800D	172.95		100 120	90 90	4	$50-2.5 \pm 3$	S	61/2				S		Yes	Dual voice-coils; tube enclosure; 80- watt powered version, \$297.95 each.
	RP1000D	222.95		120	90		40-2 ± 3	S	8				S		Yes	As above; powered version, \$347.95 each.
	ST820S ST1020S	444.39	359.95 429.95	240	90 93 94	4	35-1.5 ±3 35-20 ±3 25-20 ±3	S	10 (2)8 (2)10	2	A/P	Yes	S		Yes Yes	Dual voice-coils; tube enclosure. Box enclosure.
	ST10205		459.95	260	94	4	$25-20 \pm 3$ 25-20 ± 3			3	8/P	Yes	s s		Yes	Single-enclosure stereo version, Model ST1020, \$399.95. Par enclosure
	ST1220S		499.95	320	95	4	$25 \cdot 20 \pm 3$ 20 \cdot 20 \pm 3		(2)10, (2)5 (2)12 (2)8 (2)10, (2)5 (2)12, (2)5 (2)15, (2)5, (2)5, (2)5, (2)15, (2)5, (2)10, (2)5, (2)10, (2)5, (2)12, (2)5, (2)5, (2)12, (2)5,(2		Yes			Yes	Box enclosure.
	HB820 HB1030	359.95 449.95		240	94 94	4	30.20 ± 3 30.20 ± 3 25.20 ± 3		28	2 3		Yes Yes Yes	S S		Yes Yes	As above. As above.
	HB1230	499.95		320	95	4	20.20 ± 3		2)5	3		Yes	s		Yes Yes	As above.
	HB1530	599.95		380	96	4	20-20 ± 3		25	3		Yes	s		Yes	Dual-enclosure version, Model HB1230S, \$539.95. Dual-enclosure version, Model
95	HB1000	329.95		260	94	4	25-500 Hz	s	2)5			109	s		Yes	Hai-enclosure version, Model HB1530S, \$639.95. Box enclosure.
-	HB1200	399.95		320	95	4	±3 20-500 Hz	s	(2)12				s		Yes	box enclosure. As above.
	CP1230	429.95		320	95	4	±3 20-20 ±3			3		Yes	s		Yes	As above. Pre-cut sound board for Camaros.
	CP1200	299.95		320	95	4	20-500 Hz	s	(2)12, (2)5 (2)12				s		Yes	Pre-cut sound board for Camaros. As above,
	RP650	124.95		180	90	4	±3 50-2.5±3	w	61/2				s		Yes	As above. Tube enclosure.
	RP800 RP1000	164.95 214.95		200	90 90	4	40-2 ± 3 35-1.5 ± 3	Ŵ	8 10				S S		Yes	As above. As above.
	P52160 P65160	58.95 59.95	139.95 145.95	70 80	92 93	4	55-20 ± 3 55-20 ± 3		51/4	22	P	No No	5 F F	15% 23%	Yes	NV 00010.
(Continued)	P5710D P6810D	55.95 56.95	109.95 110.95	70 80	92 92	Ă	60-20 ±3 60-20 ±3		5 x 7 6 x 8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	P	No No	F	23/1 21/2	Yes	
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MANUFACTURER	Anone i	Price S	Price S	Recomer in Pairs	Some Changed Harin	in the second	Fernance, Olims	Bo + -	A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE	Marcine Marcine		Series -	and the second of the second o	Contraction of the second seco	AN A	tole
PYLE (Continued)	P6920D P6940D P4116D P455T P455T P455T P455T P455T P455T P455T P455T P455T P455T P455W 355W P499W P465W 355W 355W 465W 5210W 6910W 4110W K-HP523A K-HP523A K-HP523A K-HP523A K-HP523A K-HP523A K-HP5216 M510 M516 M516 M516 M516 M516 M516 M516 M516	89.95 99.95 99.95 59.95 45.95 45.95 46.95 47.95 58.95 26.95 15.95 28.95 26.95 24.95 27.95 24.95 26.95 24.95 27.95 24.95 28.95 24.95 26.95 32.95 34.95 34.95 35.95 85.95 43.95 34.95 41.95 43.95 43.95 43.95 44.95 44.95 45.95 43.95 45.95 23.95 23.95 32.95 23.95 32.95 23.95 32.95	199.95 249.95 149.95 119.95 229.95 108.95 229.95 229.95 229.95 249.95 265.95 229.95 24.95 265.95 55.95 55.95 55.29 55.95 219.95	130 130 200 80 40 50 50 50 140 80 80 80 80 80 80 80 80 80 80 80 80 80	94 94 94 94 90 91 91 95 94 93 94 93 94 93 94 91 93 94 92 92 94 90 93 94 94 94 90 90 90 90 90 90 90 90 90 90 90 90 90	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 40.20 \pm 3\\ 50.20 \pm 3\\ 55.20 \pm 3\\ 55.20 \pm 3\\ 55.20 \pm 3\\ 90.20 \pm 3\\ 70.20 \pm 3\\ 40.20 \pm 3\\ 40.18 \pm 3\\ 55.18 \pm 3\\ 55.18 \pm 3\\ 45.20 \pm 3\\ 45.20 \pm 3\\ 44.20k \pm 3\\ 500.10 \pm 3\\ 4k.20k \pm 3\\ 3k.20k \pm 3\\ 4k.20k \pm 3\\ 3k.20k \pm 3\\ 3$	T WWWMMMMTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	6 x 9 6 x 9 4 x 10 3 ¹ / ₂ 4 x 6 6 x 9 4 x 10 6 x 9 5 x 9 3 ¹ / ₂ 4 x 6 5 x 9 4 x 6 5 x 9 3 ¹ / ₂ 8 x 9 10 12	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	P P P P P P P P P P P P P P P	No No No No No No No No No Yes Yes Yes		$\begin{array}{c} 3\frac{1}{2}\\ 3\frac{1}{2}\\$		Biamp capable; overload protected. As above. For Ford and GM cars. Metric mount basket. Overload protected. For Ford and GM cars. As above. Fits 3 ¹ /2- or 4 x 6-inch holes. Fits 3 ¹ /2- or 4 x 6-inch holes. Fits 4 x 6-inch hole. Passive radiator. As above. As above.
QUINN	QSMT 125 QSMT 100 QSMT 75	59.95 49.95 39.95	119.90 99.90 79.90	125 100 75	89.5 89.5 89.5	Ŧ	$3k-20k \pm 3$ $3k-20k \pm 3$ $3k-20k \pm 3$ $3k-20k \pm 3$	T T T					S S S		No	†2, 4, or 8 ohms.
RADION	055-10 055-10 055-4040 055-5050 055-4646 055-88 055-1010 055-1212 055-1212 055-1515 05-411 05-622 05-611 05-622 05-633 05-911 05-922 05-933	40.00 50.00 75.00 92.00 107.00	40.00 50.00 80.00 40.00 49.00 49.00 49.00 70.00 65.00 87.00 105.00	50 60 100 125 150 250 300 90 100 110 120 150 175 120 160 220			$\begin{array}{c} 120 \cdot 16 \pm 3 \\ 120 \cdot 19 \pm 3 \\ 70 \cdot 15 \pm 3 \\ 40 \cdot 16 \pm 3 \\ 50 \cdot 19 \pm 3 \\ 40 \cdot 16 \pm 3 \\ 40 \cdot 19 \pm 3 \end{array}$	T MW WWssss	51/4 4 6 8 10 12 15 4 4 51/2 61/2 61/2 61/2 65/2 6 x 9 6 x 9	2 W 2 2 W 2 3 W 2 3 W 2 3			5 CFFP FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF			4 x 6-inch plate. For sealed enclosure. As above. As above.
REALISTIC	12-1712 12-1859 12-1715 12-1715 12-1713 12-1713 12-1713 12-1717 12-1707 12-1707 12-1707 12-1707 12-1707 12-1707 12-1707 12-1704 40-1350 40-2054	41.95 61.95 49.95 79.95	189.95 99.95 69.95 79.95 49.95 59.95 42.95 22.95 22.95	100 60 40 50 60 40 15 20 15 100 120 40 60	93 90 95 88 95 90 92 90 86 88 86 88 86 86		20-20 20-20 75-20 70-20 80-20 100-20 40-1 26-2.7 120-20 50-20	SS	8 9 6 x 9 5 1/4 4 1/4 3 3 8 12 4 5	2 3 2 3 4 3 2 2 2	A A A A A A A A A A	,	SFFPSFS5FFFFS5		Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Box enclosure. As above.
REDLINE PERFORMANCE (Continued)	RPF-60 RPF-80 SAT-16M SAT-1C SAT-1M RPF-100 RPF-120	59.99 79.99 94.99 112.99	139.99 129.99 139.99	65 80 50 50 50 100 125	90 90 92 92 92 92 92 90 91	44444	50-5 45-5 3k-20k 3k-21k 3k-20k 40-3 35-2	W T T S S	6½ 8 10 12		P P P		F, S F, S F, S F, S F, S F, S F, S	3 35/1 3/4 3/4 4 ¹⁵ 2 5	Yes Yes Yes Yes Yes Yes Yes	

AUDIO/MAY 1992





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Speakers

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REDLINE	RPF-150 GE-165LTW	139.99		1 100	1 92	4	30-2	S	15	\leftarrow	f		F, S	61/4	Yes	
(Continued)	GE-206R GE-408R	65.00 80.00		75 100 100	92 95 94	4/8	50-1 40-3 40-2	WWW	51/4 61/2 8		{		F	23/4 23/4 35/1	Yes Yes Yes	
	GE-8SW GE-10SW GE-4010R	85.00 120.00 110.00	1	75 100 115	93 93 94	4/8 4/8 4/8	35-2 35-2 35-3	S	8 10 10				F	351	Yes Yes	
	GE-6010R GE-7010	115.00		130	95	4/8	30-3 30-3	S S	10				F F F	43% 43% 41/2	Yes Yes Yes	
	GE-SW7010 GE-SW4012 GE-6012R	142.00 135.00 130.00	1	130 150 150	93 95 97	4 8 4/8	25-2 20-2 35-3	<i>い い い い い い い い い い い い い い い い い い い </i>	10 12 12			:	F	41/2 41/4 41/4	Yes Yes	
	GE-7012R GE-7015R 0DI-10	159.00	1	175	98 98	4/8 4/8	35-3 27-3	S	12				F	4 ⁷ /1 6 ¹ /4	Yes Yes Yes	
	0011-10 00E-10	210.00 270.00 300.00		150 200 250	96 97 98	88	40-2 40-2 45-2	55	10 10 10				F	47/1 47/1 47/1	Yes Yes Yes	
	001-12 0011-12 00E-12	225.00 300.00 359.00		150 200 300	97 98 98	8	40-2 40-2 30-3	S	12 12 12	ĺ			F	51/2 51/2 55/1	Yes	
-	0DI-15 0DII-15 0DE-15	251.00 335.00 379.00		150	97 98	8	28-3 30-3	S	15 15	[F	63/1 63/1	Yes Yes Yes	
	0DE-18 GE-550S8M	499.00 25.00		300 275 50	99 101 91	8 8 8	25-3 23-2 500-10	S M	15 18		[F	7¼ 8¼ 2¾	Yes Yes Yes	Sealed-back midrange.
	GE-650SBM GE-1050SBM GE-1045R	49.00 37.00 35.00		50 50 40	92 91 90	88	500-8 500-9 300-10	MM					F	4 21/4	Yes	As above. As above.
	GE-1053R SAM-1.5	37.00 99.00		50 50	91 92	8	250-8 800-10	M					F	13⁄4 2 13⁄4	Yes Yes Yes	
	SAM-2.0 OD-PMR MDT5	129.00 299.00 19.00		65 125 40	93 104 91	8 8 8	750-9 200-4 5k-21k	M					F	13/4 13/4 1/2	Yes Yes Yes	
	MR-10 SR-10 HT-1	25.00 29.00 43.00		50 50 30	90 92 94	8	3k-20k 2k-20k	ÌŤ					F	¥4 ¥4	Yes Yes	
	IRT-1 TCA-1	99.00		75 50	93	8		I I	1				F F F	3 1½ ¾	Yes Yes Yes	
ROADMASTER	OD-KD MT-1 RS500N	129.00	20.00	80 30 25	95 91 93	84	70-15 ± 3	H	<u></u>				F	1½ ½	Yes	
	RS520N RS630		60.00 60.00	25 80	92 93	4	70-20 ± 3 80-20 ± 3		51/4 51/4 51/4	W 3 3		No No	S S C		Yes Yes No	
	RS800 RS900 RS1690		35.00 60.00 125.00	37.5 80 100	93 93 93	4 4 4	70-15 ± 3 40-20 ± 3 40-20 ± 3		6 x 9 6 x 9 6 ¹ /2	8 3 3		No	C C S		No No Yes	
	RS1990 RS6010 RS6035		125.00 35.00 60.00	200 25 60	93 93 93	4 4 4	30-20 ± 3 200-20 ± 3 100-15 ± 3		6 x 9 3	3 W		No	S ·S		Yes No	
ROCKFORD	RS6065 SP-64TW		109.00	75	90 89	4	150-20 ± 3	 	3 3½	3		No No	S S		No	Sealed box enclosure. As above.
FOSGATE	SP-464TW S1-184/188	199.00	157.00	50 150	90 92	4/8 4/8	90-20 100-20 26-2.5	s	18	2		No No	C C C	2 ¹ / ₄ 2 7 ¹ / ₄	Yez Yez Yez	Midrange and twester. As above.
	\$1-3 \$1-4 \$1-5		49.99 59.99 99.99	25 30 50	86 88 89	4	150-15 100-15 92-20		31/2 4 51/4	W W 2	ļ.	No	C C C	11/2	Yes Yes Yes	
	\$1-6 \$1-46 \$1-692		109.99 59.99 129.99	50 30 50	92 89 94	4	88-20 100-15		6½ 4 x 6	22		No No	Ċ	2	Yes	
	\$1-693 BP-600	159.95	169.99	80 70	93 85	4	65-20 60-20 46-123 Hz	S	6 x 9 6 x 9 6½	2 3		No No	C C	3	Yes Yes Yes	Tube enclosure.
	BP-1000 ND-4/8 FCU II	249.95 415.00	135.00	100 50 200	92 91 93	4 4/8 4	54-126 Hz 3k-20k	S S T	10 8			No	c	1	Yes Yes Yes	As above. Box enclosure.
	FCP II FHC MPC	265.00	415.00 300.00	300 200	93 93	4			10 8 8			No No No			Yes Yes Yes	As above. Mono; fifth-order enclosure.
	R208 R308 R310		300.00 360.00 420.00	200	93 93 93	4	60-20 55-20		8	2		No No			Yes Yes	Box enclosure. Separate enclosure for each channel. As above.
	R312 R315	520.00 600.00		200 350 350	93 93	4 4 4	55-20 45-20 40-20		10 12 15	3 3 3		No No No			Yes Yes Yes	As above. Enclosure. As above.
	SP-34TW SP-44TW SP-54TW		136.00 146.00 157.00	50 50 80	84 88 91	4/8 4/8 4/8	213-20 84-20 95-20			2 2 2		No No No	C C C	1¾ 2¼ 2¼	Yes Yes	Midrange and tweeter. As above.
	SP-694TW PCH-84/88 SP-694/698	104.00	167.00	80 150	94 89.7	4/8 4/8	59-20 40-4.2	w	6 x 9 8	2		No	C C C C C	4	Yes Yes Yes	As above.
	SP-64/68 SP-54/58	87.00 87.00	104.00	100 100 100	94 89 90	4/8 4/8 4/8	50-6 44-4 96-6.2	W W M	6 x 9 6½				C C C	3¼ 3¼ 2¼	Yes Yes Yes	
	SP-44/48 SP-34/38 SPT-4/8	32.00	93.00 83.00	50 50 50	88 86 91.3	4/8 4/8 4/8	85-12 205-20 3k-20k	M					C	2¼ 1¾	Yes Yes	Includes Bladet We do soo
	The Plate 4/8	89.50		~	जान्य	4/8	275-20 ± 3	'		2		No	C P	1/2	Yez Yez	Includes Model TX-184/188 crossover. Midrange, tweeter, and crossover on 4 x 6-inch plate.
	SAT 44/48 FCC	415.00	315.00	90		4/8 4	35-100 Hz	s	(2)8	2		No No			Yes Yes	Includes SP-44/48 midrange and SPT- 14 tweeter with crossover. Mono; fifth-order enclosure; fits rear
	SPT-14RX/18RX S1-154/158	129.00	104.00	50 150	93	4/8 4/8	2.5k-20k 25-2.5	TS	. 15				c	1/2	Yes	well of Camaro. Includes crossover.
(Continued)	\$1-124/128	109.00		100	93	4/8	29-2.5	Ŝ	12			_	C	5 ^{1/2}	Yes	

Speakers

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				/	1	No Un	L. Marine	/	A CONTRACTOR OF THE OWNER	1	/	' /	. /.	cition in the second	ies man (s) and	No Lease
		/	Price S (II 5.5	æ	Sec. Chamber Haller		Ference, Ohne VI II W	9. A	A A	and the second s		Y THE REAL	and the second s		Stand Color of Color	
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	tool tool	100	11.5.5	10- COM	10 Sue		Codan,									fores for
MANUFACTURER	*		4.6	/ ² ²	<u>/ </u>	/ *	·/					<u></u>		Ζ.	/ *	
ROCKFORO FOSGATE	S1-104/108 S1-84/88	79.00 69.00		100 100	91 90	4.8	35-3 40-2	s W	10 8				C C	4	Yes Yes	
(Continued)	SPPR-64/68 PRD-184/188	49.00 555.00		70 400	89 95.4	4/8	46-5 27-2.5	ง₹₹ตร	6 18				C	3 744	Yes	
	PRD-154/158 PRD-124/128 PRD-104/108	408.00 387.00 252.00		400 400 200	93.5 92.5 92	4/8 4/8 4/8	30-3.5 31-2.5	35	15 12 10				0000000	6+4 5+4 444	Yes Yes Yes	
	PRD-84/88 PCH-184/188	205.00 272.00		200 200 200	90 94 92.4	4/8 4/8	22-3	₩ S	8 18				Č	4 74	Yes	
	PCH-154/158 PCH-124/128	188.00 167.00		200 200	92.4 90 92	4/8	25-2 32-4	S S W	15 12				C C C	6¼ 5 4¼	Yes Yes Yes	
ROCKSTAR	PCH-104/108 RST-693HF	135.00	39.00	150 50	93.5	4/8	38-4 60-20	-	10 6 x 9	3	P	No	F	474	Yes	
	RST-525HF RST-693MX RST-4747		28.00 37.00 45.00	50 50 60	93.5 93.5 93.5		60-20 50-20 50-20		5¼ 6 x 9 5	3 3 4	P A P	No No No	F F S		Yes No No	Box enclosure.
SANYO	HD451 HD452A		29.99 39.99	60 60	89	4	50-20 50-20		4	W 2		No	F	1¾ 1¾	Yes Yes	
	HD651 HD953		39.99 89.99	60 150	90 91 93 90	4	45-20 40-20		6 ¹ /2 6 x 9	W 3		No	F	13/4 33/4	Yes	Pass seller escience
	HD152 HD652 SP420		99.99 54.99 34.99	75 100 60	90 92 90		70-20 45-20 80-20 ± 3		5 6½	2		No No Yes	S F	13/4 11/2	Yes	Bass-reflex enclosure.
SAS/BAZOOKA	T52 T16	239.00	209.00	50 100	97 100	4 4/8	39-5 ± 3 39-1.5	5 5 5	5 6½				s s	<u> </u>	Yes	Bass Tube. As above.
	T62 T18	329.00	239.00	100	100	4/8	39-1.5 39-1.5 ± 3	S	6½ 8				S S		Yes Yes	As above. As above.
	T82 T62A	339.00	329.00	150 40	102 100	4/8	39-1.5 ± 3 39-250 Hz	\$ \$	8 6½				S S		Yes Yes	As above. Powered mono subwoofer; variable crossover frequency; bass-reflex
	T62S	129.00		lnc. 100	100	4	±3 39-1.5	S	61/2				s		Yes	enclosure. Slave unit for model above.
	T82A	379.00		40 Inc.	102	4	39-250 Hz ± 3	S	8				S		Yes	Powered mono subwooter, variable crossover frequency; bass-reflex enclosure.
	T82S T102A	169.00 449.00		150 40	102	4	39-1.5 ± 3 39-250 Hz	s	8 10				S		Yes Yes	Slave unit for model above. Powered mono subwooter, variable
				Inc.												crossover frequency; bass-reflex enclosure.
	T102	229.00		200	104	4/8	39-1 ± 3	S	10		1.0		s		Yes	Bass Tube; usable as slave unit for model above.
SAS/ EUPHONIC SERIES	400R 650R 525R		329.00 379.00 349.00	100	87	4 4 4	70-20 ± 3		4 6½ 5¼	222	А/Р А/Р А/Р	Yes Yes Yes	C C C	2	Yes Yes Yes	
SAVARO	Challenger 1505 Challenger 1201	1010. 799.95			92 99	2	25-30 ± 3 25-30 ± 3		(4)15 (4)12	3		No No				Box enclosure; biamp capable. As above.
	Hatchback 1508 Hatchback 1204	689.95 499.95		250 300	92 99	4	30-30 ± 3 30-30 ± 3		(4)15 (4)12 (2)15 (2)12	3		No No	1			As above. Box enclosure.
	Hatchback 806 Split Street Beat 1005	379.95	459.95	200 200	98 99		38-30 ± 3 36-30 ± 3		(2)8 (2)10	2		No No				As above. Separate enclosure for each channel; for trucks.
[Split Street Beat 805		359.95	200	98	4	38-30 ± 3		(2)8	2		No				As above.
	Dual 8" Coupler Dual 12" Coupler FTC 1205	329.95 399.95 539.95		200 400 300	98 99		38-350 Hz 30-350 Hz 30-30 ±3	W	(2)8 (2)12 (2)12	3		No				Bass tubes; includes crossover. As above. Enclosure; for Camaros.
	SJT 12 Street Beat 1507	539.95 619.95		300 250	99 99 92	4	$30-30 \pm 3$ $30-30 \pm 3$		2)12 (2)12 (2)12 (2)15	3		No No				Box enclosure; for Jeeps and Trackers. Enclosure; for trucks.
	Street Beat 1209 Split Street Beat 1204	509.95	519.95	300 200	99 99	4	$35-30 \pm 3$ 36-30 \pm 3		(2)12 (2)12	3		No No				As above. Separate enclosure for each channel; for trucks.
	RAP 18 HF 20 Kit		89.95	85	98	4/8 4	3k-23k	¥	18		P		FC	3.8		Kit.
	HF 25		89.95	95	94	4	±3 3k-23k	т			P		F.	34		
	MR 5 MB 5		89.95 59.95	90 40	94 90	4	±3 600-6 ±3 60-5 ±3	M					F	2½ 2¼		Sealed-back midrange,
	MB 6 MB 10	69.95 99.95		100 250	96 99	4	$40-5 \pm 3$ 35-4 ± 3	M					F	23/4 41/2		
	CDAX 4 CDAX 5 MST 10		139.95 159.95 39.95	45 50 150	90 92 95	4	55-20 ±3 48-20 ±3	_T	4 5¼			Yes Yes	F F F	1/2		For off-axis use.
	PRD 18"	279.95	63.30	1k	98	4/8	20-400 Hz ± 3	Ŵ	18				F	8		
	RAP 8" RAP 10" RAP 12"	89.95 99.95 129.95		240 340 400	90 91 92	4 4/8 4/8	37-1.3 ± 3 32-1.3 ± 3 28-1.2 ± 3	l	8 10 12				FF	3 ¹ /2 4 4 ¹ /2		
	RAP 15" PRD 8"	149.95 89.95		500 300	92 98 99	† 4/8	25-1 ± 3 30-3 ± 3	Ŵ	15 8				F	6 3½		†2, 4, or 8 ohms.
	PRD 10" PRD 12" PRD 15"	109.95 119.95 149.95		500 500 500	99 99 98	4/8	27-3 ±3 25-3 ±3 25-3 ±3	W	10 12 15				FF	4 ¹ /2 5 6 ¹ /2		
SENNET	PRD 15" ISD SC4	179.95	80.00	500 80	98 89	4	25-3 ±3 80-21 ±3	Ŵ	15	2		No	F	6 ¹ /2	Yes	Enclosure.
CONCEPTS	SC46 SC940		60.00 60.00	60 80	89 89	4	85-20 ± 3 70-21 ± 3		3 ¹ /2	222		No No	P .	15% 15%	Yes	
(Continued)	SC950 SC969		75.00 125.00	100 100	90 92	4	50-21 ± 3 35-21 ± 3		5 6 x 9	23		No No	F, S F, S F, S	15/8 2 ¹ /8	Yes Yes	
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AUDIO/MAY 1992

SPEAKERS DRIVERS

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MANUFACTURER	, io	Price S	Price 5	Pecton Pairs	Walls Changed Marie	constitutity, cla	Frequence Off Wan	80 × 144	Month Carling	and Josephered			a - (Commentante () Surger	M. Romined	Folder
ENNET DNCEPTS	SC80	120.00		100 Inc.	95		20-250 Hz ± 3	s	8	\square			s		Yes	Powered subwoofer; tube enclosure; includes frequency-adjustable
ontinued)	SC65	90.00		80 Inc.	91		35-250 Hz ± 3	s	61⁄2				s		Yes	crossover. As above.
	SC8	80.00		100	92	4	20-250 Hz ± 3	S	8				S		Yes	Tube enclosure; dual voice-coils.
INTREK	SBT 650 SBT 810	149.95		50 Inc. (2) 50	90	4	50-250 Hz 25-250 Hz	s s	6 ¹ /4 8							Powered mono subwoofer; tube enclosure; low-pass filter adjustable from 100 to 350 Hz. Powered stereo subwoofer; tube enclosure; low-pass filter adjustable
	SW 15 SW 12 SW 10 SW 8 SW 6 SW 5 SH 22 SH 18	89.95 69.95 49.95 39.95 29.95 19.95	49.95 69.95	Inc. 300 250 200 150 100 80 60 100	95 93 92 92 92 90 90 89	4/8 4/8 4/8 4/8 4/8 4/8 4/8 4	25-3 25-3 30-3 35-3 55-10 65-12 200-22 400-22	S S S W M	15 12 10 8 6 ¹ ⁄2	22	A	Yes	F F F F F S	6 5 4 2 ³ / ₄ 2 1 ¹ / ₂	No No No No No No No	from 50 to 250 Hz. Dual-impedance voice-coil. As above. As above. As above. As above. Midrange and tweeter. Midrange and tweeter on 4 x 6-inch
	SH 12 SH 8 SC 585 SC 485 SC 385 SC 200 SR 698 SR 620 SR 106 SR 418 SR 419 SR 419 SR 419 SR 418 SR 314 ST 35	9.95	42.95 109.95 84.95 59.95 64.95 54.95 44.95 69.95 42.95 39.95 39.95 24.95 24.95 19.95 134.95	75 60 120 60 80 60 60 60 60 40 40 40 40 40 40 40	90 91 90 89 88 88 93 91 91 92 90 90 88 88 88 90	444444444444444444444444444444444444444	$\begin{array}{c} 2k\cdot22k\\ 6k\cdot22k\\ 35\cdot22\pm3\\ 40\cdot22\pm3\\ 50\cdot21\pm3\\ 50\cdot20\pm3\\ 40\cdot20\pm3\\ 60\cdot20\pm3\\ 60\cdot19\pm3\\ 50\cdot20\pm3\\ 60\cdot18\pm3\\ 70\cdot18\pm3\\ 70\cdot18\pm3\\ 70\cdot18\pm3\\ 70\cdot16\pm3\\ 95\cdot20\pm3\\ \end{array}$	T	$\begin{array}{c} 4 \times 5\frac{1}{2} \\ 4 \\ 3 \\ 4 \\ 6 \times 9 \\ 6\frac{1}{2} \\ 6\frac{1}{2} \\ 4 \times 10 \\ 5\frac{1}{4} \\ 4 \times 6 \\ 4 \\ 3\frac{1}{2} \\ 5\frac{1}{4} \end{array}$	333332222WW3	Ρ	No No No No No No No No	8 F 8 8 8 5 F F F F F F F F F F F F F F	1/2 3 2 2 1/2 2 1/2 2 1/2 2 1/2 2 1/2 2 1/2 2 1/2 1/	NO NO NO NO NO NO NO NO NO NO NO NO NO	plate. Honeycomb wooler. For trucks.
HERWOOD	SX-6M SX-5M SX-2T SX-1T SX-30 SX-42 SX-32 SX-52 SX-62 SX-62 SX-93 SX-10S SX-12S	180.00 250.00	110.00 90.00 100.00 80.00 45.00 75.00 85.00 100.00 150.00	110 85 100 60 45 80 100 120 150 450 500	89 90 93 91 91 91 92 93 95 95		35-10 40-12 1.5k-23k 3k-23k 65-20 50-22 45-22 45-22 40-22 35-22 25-3 20-3	M T T S S	61/2 31/2 4 5 6 x 9 10 12	W 2 2 3		No No No No	FF.S S S S S S S S S S S S S S S S S S S		Yes Yes Yes Yes Yes Yes Yes	Biamp capable. As above. As above. As above. Requires sealed or ported enclosure. As above.
ONY	XS-1012 XS-3012 XS-6012 XS-6911 XS-6911 XS-628 XS-44 XS-4622 XS-426 XS-628 XS-628 XS-626 XS-626 XS-625 XS-6025 XS-6025 XS-6024 XS-6024 XS-6024 XS-6024 XS-6024 XS-6025	90.00 145.00	60.00 65.00 75.00 45.00 110.00 110.00 110.00 110.00 110.00 110.00 120.00 120.00 120.00 120.00 120.00 120.00 125.00 145.00 145.00 145.00 110.00 110.00 145.00 110.00 120.00	50 60 60 355 40 355 40 345 80 60 70 140 150 160 120 120 120 120 150 120 120 120 120 120 120 120 120 330 5 330 5 5 330 5 5 5 5 5 5 5 5 5 5	89 90 91 91 88 88 88 89 90 90 90 91 91 91 92 93 88 88 89 90 90 90 90 90 90 90 88 88 88 89 90 90 90 88 88 88 89 90 90 90 90 90 90 90 90 90 90 90 90 90	*******************	50-20 40-20 30-200 70-20 50-20 70-20 50-20 50-20 50-22 40-21 40-22 40-21 40-22 40-22 40-22 40-22 40-22 40-22 40-22 40-22 40-22 40-22 40-22 40-22 40-22 40-22 30-30 20-26 50-20 50 50-20 50-20 50-20 50-20 50-20 50-20 50 50 50 50 50 50 50 50 50 50 50 50 50	T T T T MM WS Ss	434499 434499 534249 534249 534249 534249 534445 534445 555 55 55 55 55 55 55 55 58 10 58 10 58 55 55 55 58 55 55 55 58 55 55 55 58 55 55	***************************************	А/Р А/Р А/Р А/Р А/Р	Na No No No No Yess Yes Yes Yes		134 17 12 234 42 145 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	For Audi and Mercedes vehicles. For Mazda, Ford, and Nissan vehicles For marine use. Fits 6 x 9-Inch holes.
OUNO BARRIER Continued)	XS-L300 VR-1000 VR-X800 VR-X700	340.00	198.00 100.00 78.00	300 150 150 70	94	4 4 4 4	18-3 30-22 30-22	S	12 6 x 9 6 x 9 6 x 9 6 x 9	3 4 3	P P P	No No No	F S S	53/8	No No No	

WIRELESS SPEAKERS

Breakthrough speaker technology sends music wirelessly throughout your home!

TECHNOLOGICAL BREAKTHROUGH

Music lover's dream! If you're a music lover you've probably considered running a maze of speaker wires all over your house or dragging your speakers from room to room so you could listen to your stereo in your living room, den, bedroom or patio. Frustrated?

In 1991, an electronics company called **Datawave** introduced their line of wireless speakers at the **Consumer Electronics Show**, turning the heads of some of the largest manufacturers in the world. **These wireless speakers** have been touted as "one of the most exciting new products of the 90's."

Imagine listening to music anywhere in your home or outdoors without miles of speaker wire. You could listen to any component of your stereo system (CDs, records, tapes, AM/FM stereo,... etc.) throughout your home. Like the speakers of your dreams, they have their own built-in amplifier. so you can switch them on and off and control the volume independently at each speaker. These self-amplified speakers cannot be blown out, regardless of your stereo's wattage.

"Our TV and stereo are in the same room and my husband and kids were always fighting before we got the Datawave speakers. Thanks for bringing peace to our family!" D. Lance, Madison, WI

PATENTED DESIGN

The heart of Datawave's breakthrough design is a patented FM technology which broadcasts music wirelessly from a small transmitter to satellite speakers. The transmitter, about the size of a paperback book, sends the music through walls, floors, and ceilings to the speakers and simply plugs into a headphone, audio-out or tape-out jack on your stereo, VCR or TV.



WS7 SPEAKER

Now for the big guestion-How do they sound? These speakers sound great, with deep, rich bass and crystal clear highs. You see, these speakers operate on two selectable frequencies, insuring static-free transmission throughout your home. The speakers are selfpowered, with a 150 ft, range through walls, providing total coverage in even the largest homes. These wireless speakers will belt out as much volume as you'll ever need to fill your rooms with music They even have an amazing built-in detection circuit which automatically cuts them off when you turn off your stereo.

MUSIC ANYWHERE

You can operate as many speakers as you like on one transmitter. In addition, you can utilize one transmitter to mix both left and right channels on each speaker or use two transmitters with as many pairs of speakers as you want to get full stereo separation. So place one speaker or more in a room or one speaker in every room of the house-the possibilities are limitless!

All of these wireless speakers are compatible, using the same transmitter, so you can mix and match

them to fill your home with music. So listen to

your stereo where you want, and take advantage of the following assortment of innovative wireless speakers.

• WS7, our classic wireless speaker, available in either black or white in an attractive, water-resistant en-

closure. Designed with a 360 degree sound pattern to blanket a room with clear, crisp music. Operates on 4 C-batteries, which will power the speakers for about three months, or on an optional AC adapter.

• WSH-7, our wireless shower

speaker. Listen to news or sports programs while in the shower or sing along to your favorite music. This speaker is hung directly from the shower head and is fully waterproof.



 WRS10, a wireless speaker mounted in a rock-like enclosure. The rock speaker is an ultra-realistic reinforced fiberglass boulder that contains a state of the art FM receiver and weatherproof speaker. The downward firing speaker and acoustic enclosure are designed to resonate and enhance the bass.



patio, garden, and pool areas, it blends in completely with your surroundings.

"I'm not a gadget guy, but these speakers amazed me. They're not only wireless, but sound great too!" M. Thompson, San Diego, CA

• WH200, a wireless head-

phone that allows you to enjoy private TV sound or music anywhere in or around your home.



"I have a great sound system in my family room, but I'm not always in that room. Now I can listen to my favorite CDs anywhere in my home even on the patio." J. Randal, Reading, PA

EXCLUSIVE OFFER

For a limited time, we are offering the Datawave line of wireless products directly to consumers far below retail price! This offer will not be made available in stores!

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SPEAKERS DRIVERS

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	and the second	the S	Price 5	Record in Pairs	Wall Changed Max	Constitution of	Freedonce, Ohns Freedonce, Ohn	90	A CONTRACTOR	and the second			d = (Communication (C) Survey	Comment of the second	Moles
MANUFACTURER	VR-X600	1			×/ 4			/3	L .	ſ			1	3 / 4	[°/
(Continued)	VR-X500 VR-X500 VR-X200 VR-X200 VR-X100 AR-909 AR-606 AR-505 AR-606 AR-505 AR-404 AR-303 AR-202 AR-101 SR-360 SR-320 SR-160 SR-120		62.00 46.00 54.00 52.00 32.00 106.00 72.00 48.00 58.00 48.00 34.00 34.00 34.00 34.00 34.00 34.00 34.00 34.00 30.00	75 60 55 60 45 35 75 60 40 35 30 60 40 50 30			40-22 40-20 45-22 50-20 50-20 30-22 40-20 50-20 50-20 50-20 80-20		61/2 51/4 4 x 6 51/4 4 6 x 9 61/2 51/4 4 61/2 51/4 4 61/2 5 5	3 3 3 3 3 3 3 3 3 2 8 2 8 2 8 3 3 8 8 8 8	P P P P P P P P	No No No No No No No	88888888888888888 88888888888888888888	1½ 1½ 1½ 1½	No No No No No No No No No No No No	
SOUNDSTREAM	NT-1 SS4.0 SS5.0 SS510 SS511 SS8 SS10	150.00	190.00 115.00 130.00 319.00 419.00	70 50 70 70 70 200 250	90 90 90 90 89 90 90 91	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2.5k-20k 70-18 ± 3 55-6 ± 3 55-20 ± 3 50-20 ± 3 37-500 Hz ± 3 22 500 H=	T W S	4 5 5 5 8	W 2 2	A/P A	Yes Yes	C S F. S F. S F. S	1/2 21/8 21/8 21/8 21/8 31/2	Yes Yes Yes Yes Yes	
	SS12 SS15	290.00 550.00		230 300 1k	94 98	4	32-500 Hz ±3 26-500 Hz ±3 30-500 Hz	S S S	10 12 15				F, S F, S F, S	3 ⁷ /8 4 ³ /4 6 ³ /4	Yes Yes Yes	
	SS18 Granite 8	795.00		1k 100	97 90	4	±3 20-500 Hz ±3 40-500 Hz	S	18				F. S	8	Yes	
	Granite 10 Granite 12	155.00		200	93 96	4	37-500 Hz ± 3 33-500 Hz	S S	8 10 12				F, S F, S F, S	4½ 51/8	Yes Yes Yes	
CRADITOMATIC	Granite 15	250.00		200	92	4	±3 20-500 Hz	s	15				F, S	6%	Yes	
SPARKOMATIC	SK42 8525 STW800 STW650	79.99	49.99 39.99	50 50 Inc.	89 90 92	4	80-20 ± 3 50-21 ± 3 30-250 Hz ± 3	s	4 51/4 8	2 2		No No	† F S	13⁄4	Yes Yes Yes	†Swivel-mount bracket. Powered subwoofer; tube enclosure.
	9440 8690 8650 8400 SK693 SK692 SK63 SK415 SK410 SK400 SK400 SK300 9690 9525 9400	09.99	89.99 57.99 44.99 29.99 34.99 32.99 34.99 27.99 27.99 27.99 19.99 89.99 44.99 39.99	Inc. 40 70 60 40 160 120 80 80 80 80 80 80 80 80 80	92 90 93 91 89 95.3 96.6 90 86 86 86 86 86 86 92 90 89	444444444444444444444444444444444444444	$\begin{array}{c} 35\ 250\ Hz\\ \pm\ 3\\ 60\ 20\ \pm\ 3\\ 40\ 20\ \pm\ 3\\ 60\ 20\ \pm\ 3\\ 80\ 20\ \pm\ 3\\ 30\ 17\ \pm\ 3\\ 30\ 15\ \pm\ 3\\ 90\ 15\ \pm\ 3\\ 70\ 21\ \pm\ 3\\ 70\ 21\ \pm\ 3\\ 70\ 21\ \pm\ 3\\ \end{array}$	S	6 ¹ / ₂ 6 x 9 6 ¹ / ₂ 5 x 9 6 x 9 6 x 9 6 x 9 6 x 9 6 x 9 5 4 4 4 4 5 x 9 5 4	3322323WWW3222		No No No No No No No No	8 84444448844444	334 21/4 13/4 31/2 13/4 23/1 13/4 11/2 3 11/2 11/2	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	As above. Enclosure. For pickup trucks, vans, and RVs. Drop-in dash replacement.
SPECO	SK5110CP A5110CPP W5CF3 G860APP G1060APP G1260APP G1580APP	33.95 89.95 99.50 109.50 169.95	69.95 19.95	40 20 10 125 150 200	90 90 90 90 90 90 90	8 4 4 8 4/8 4/8 4/8 4/8	70-18 70-18 75-10 30-3 25-3 25-3 20-3	3333	5 ¹ /4 5 ¹ /4 5 8 10 12 15	22		No No No	F F F F F	21/2 21/2 33/4 43/11 47/8 51/4	Yes Yes No Yes Yes Yes Yes	Flange mount. Wedge kit.
SPL	00KD HT-1 BT-1 PMR SPL-205 SPL-306 SPL-308 SPL-8010 SPL-8012 SPL-16012 SPL-16015	129.99 49.99 99.99 51.99 75.99 139.99 239.99 239.99 239.99 259.99 319.99		150 80 300 120 180 250 1k 1.6k 1.6k 1.6k	95 96 104 104 92 97 95 98 99 100 100	8 8 8 4 4 4 4 4 4 4 4	1.5k-18k 3.5k-18k 4k-22k 200-6 50-2 42-6 40-3.5 25-3 20-3 25-3 18-2.5	T T T M M W W S S S S S S			P P P		F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.F.	13/4 21/8 3 23/4 23/4 3 7/8 43/8 51/8 53/4 7	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	
STANFCRD ACOUSTICS (Continued)	18C500DS 15C300 12C300DS 12C300DS 12C300 10C200 15S200 12S200 10S150 8S100 15S200C 12S200C 12S200C 10S150C 8S100C	399.95 229.95 269.95 139.95 129.95 99.95 89.95 59.95 259.95 219.95 179.95 119.95		1.2k 900 900 600 600 600 450 300 600 450 300	99 98 98 96 97 96 96 96 96 96 96 96 96	4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8 4/8	24-900 Hz 23-1 27-2 28-2 25-2.5 27-2.5 38-3 28-3.2 25-2.5 27-2.5 38-3 28-3.2	~~~~~~	18 15 12 12 10 15 12 10 8 15 12 10 8					12 61/2 61/2 57/2 41/2 61/2 61/2 61/2 61/2 61/2 61/2 61/2 6		

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MANUFACTURER	Mooler	Contraction of the second	and a state	Rec.	Sileo M	- Constille	and it							Solution of the second		Moles -
STANFORD ACOUSTICS (Continued)	65C100 65C50M 65S50M 55S0M 4C25M 4C25M 4S25M 3S20M AMTP46 5D725B40 ATP46 TNT25B50 TNT25B50 TNT25B60 MT15 AST15 AST15 AST15 AST15 AST15 AST15 AST15 AST15 AST15 AST15 AST15 AST0BR 5S40BR 5S50BR 8S75BR DS5T	42.95 59.95	119.95 99.95 49.95 55.95 29.95 21.95 21.95 59.95 119.95 14.95 42.95 34.95 27.95 34.95 65.95 25.95 21.95 21.95	300 100 100 50 40 40 80 80 100 75 60 40 40 40 40 20 30 80 80 80 80 100	98 98 90 89 100 100 91 89 92 96 96 96 96 93 92 93 93 94 89 95	4 8 4 8 4 8 4 8 4 8 4 8 8 4 8 8 4 8 8 8 8	65-3.5 85-10 75-10 160-10 200-17 200-10 200-8 20	WWMM MMM MM MM MM MM MM T T T T T T T T	6½ 3 6½ 8	2	P P P	Yes		3 3 3 17/5 17/5 21/5 11/4 11/4 11/4 11/4 21/2 23/4 33/5 4	No No No No No No No No	4 x 6-inch plate. Midrange and tweeter.
TREET WAVE	TR1000 TR800 CR650 CR1000	249.00	249.00 199.00 159.00	125 100 50 125		4 4 4	40-29 45-29 55-29 40-29		(2)10 (2)8 (2)6½ (2)10	2222		No No No	s s s		Yes Yes Yes Yes	Enclosure, As above, As above, As above, As above,
YMPHONY	Baritone SY12 Baritone SY10 Tenor SY6.5 Tenor SY5.2 Alto SY4.5	191.00 173.00 102.00 95.00	139.00	200 200 70 60 60	93 93 90 94 92	4.8 4/8 4 4	18-1 25-1 25-4 50-4 150-16	S S W M	12 10 6 ¹ /2 5 ¹ /4						Yes Yes Yes Yes Yes	A
ARGA	AP-4 AP-5 AP-6 AP-8 AP-10 AP-10 AP-12 MM-6 MM-12 MM-12 MM-12 MM-12 MM-12 MM-12 MM-12 MM-55 AA-8 AA-10 AA AA AA AA AA AA AAA-10 AA AA AA AA AA AA AA AA AA AA AA AA AA	30.00 35.00 40.00 90.00 120.00 40.00 50.00 92.00 107.00 70.00 70.00 90.00	35.00 40.00 50.00 100.00 32.00 40.00 47.00	75 85 125 125 125 125 125 125 125 200 275 250 60 100 275 100 275 100 275 100 275 100 120		*************	120-16 ± 3 120-19 ± 3 70-19 ± 3 70-19 ± 3	MMWWWWSSSSTT MWWSS	6 8 10 12 6 8 10 12 15 5 1/4 8 10 12 4 5 4 4 5 1/2 5	2 2 2 2 W						For sealed enclosure. 4 x 6-inch plate. 6 x 9-inch plate.
	0-62 Q-63 Q-91 Q-92 Q-93 T-6 T-8 T-10 TA-60	120.00 170.00 200.00 180.00	67.00 70.00 65.00 87.00 105.00	150 175 120 160 220 200 300 400 50	91 94 98	4 4 4 8 8 8	$\begin{array}{c} 40-16 \pm 3\\ 50-19 \pm 3\\ 40-16 \pm 3\\ 40-19 \pm 3\\ 28-180 \ \text{Hz}\\ \pm 3\\ 24-200 \ \text{Hz}\\ \pm 3\\ 20-200 \ \text{Hz}\\ \pm 3\\ 28-190 \ \text{Hz} \end{array}$	S S S	6 ¹ /2 6 ¹ /2 6 x 9 6 x 9 7 x 9 6 x 9 7 x 9 x 9 7 x 9 x 9 x 9 x 9 x 9 x 9 x 9 x 9 x 9 x	2 3 W 2 3			2 S S S S S			Ported tube enclosure. As above. As above. As above. As above; powered.
	TA-80 TA-100 XB-20 XB-30 XB-40 TB-25 TB-35	240.00 310.00 150.00 230.00 250.00 160.00 240.00		Inc. 100 Inc. 100 Inc. 350 400 500 350		8 8 8 8 8 8	± 3 25-200 Hz ± 3 24-200 Hz ± 3 40-19 ± 3 35-19 ± 3 25-19 ± 3 35-19.5 ± 3 25-19.5	S	8 10 (2)8 (2)10 (2)12 (2)8 (2)10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			S S S S S S S S S S S			As above. As above. Box enclosure. Ported box enclosure. As above. As above.
	TB-45 TB-50	280.00 330.00		500 550		8 8	±3 25-20 ±3 25-20 ±3		(2)12 (2)12	2 3			s s s			As above. As above. As above.
C AUDIO	HB103 FT102 IW82 SW82	400.00	350.00 350.00 250.00	200 150 150 150	93 93 93 93	4 4 4 4	40-20 ±3 50-20 ±3 55-20 ±3 55-20 ±3		(2)10 10 8 8	3 2 2 2		No No No	S S S		No No No	Box enclosure. As above. As above. As above.
KTON	18 21	745.00 1060.		600 1.2k	90 92	8 8	12-1 12-500 Hz	S S	18 21				S S		No No	
(UMP ontinued)	THUMP-8	245.00		175	96	4	20-125 Hz ±3	S	(2)8				S			Isobaric cylinder enclosure.

SPEAKERS DRIVERS

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		/	Price S (III 25	Sile 4	San Channel Marin	08.00	Feduence, Dime	80 ×	Month of the West	All and a set of the s		No.	Cium & Mountable	Marine (C) Surger	West Reality and the (s) and	Moles
	- Hoode	111.50	11 5 5 11		in Stree		Pedanca own i' to hick									Moles .
MANUFACTURER	THUMP-10	290.00	4-	200	97	4	20-125 Hz	S	(2)10			5	s	4	_	As above.
Continued)	THUMP-12	339.00		250	98	4	±3 20-125 Hz ±3	s	(2)12				s			As above.
	TH-820 TH-1030 TH-1230 TH-1540 Pro PTH-8R Pro PTH-10R Pro PTH-12R Pro PTH-12R	29.95 41.95 49.95 89.95 34.95 48.95 57.95 94.95		175 200 250 350 175 200 250 350	96 96 97 98 96 97 98 98 99	4 4 4 4 4 4	30-4 30-4 24-5 24-5 30-4 30-5 24-5 24-5 24-5 24-5	****	8 10 12 15 8 10 12 15					334 334 41/2 55% 334 334 41/2 55%	No No No Yes Yes Yes Yes	
TOBY	Ranger Sheriff Constable Pistol LowMan	440.00 240.00 240.00 215.00 275.00		240 120 120 100 120	99 94 93 91 90	4 4 4 4 4	47-110 Hz 47-110 Hz 50-140 Hz 45-110 Hz 34-85 Hz	55555	(2)10 10 10 8 10			l			No No No No	Oual voice-coils. As above. As above. As above. As above.
TOSHIBA	TS710 TS712 TS730 TS693 TS692 TS662 TS641	69.95 79.95	279.95 129.99 99.95 79.95 49.95	200 300 200 150 100 75 40	90 90 88 90 90 90 88 88 89	4 4 4 4 4 4	28-2 21-1.5 50-22 40-20 40-20 55-20 100-20	SS	10 12 10 6 x 9 6 x 9 6 ¹ / ₂ 4	2 3 2 2 W	P P P	No No No	F F F F F F	43/0 43/4 3 3 21/0 13/4	Yes Yes No No No No	For trucks.
ULTIMATE SOUND	PW1550	129.95	45.50	300	97	48	20-2.5 ± 3	S	15				F	6		With dual 4-ohm voice-coils, \$149.95 each.
	PW1250 PW1035 PW8035 PM6525 PM65210 PM5210 PM4010	99.95 79.95 69.95 44.95 29.95 24.95		250 225 200 85 55 45	96 95 94 92 91 91	4/8 4/8 4/8 4 4	$\begin{array}{c} 20-3 \pm 3\\ 25-3 \pm 3\\ 30-3 \pm 3\\ 40-5 \pm 3\\ 80-10 \pm 3\\ 100-10 \pm 3 \end{array}$	S S M M M	12 10 8				4 4 7 7 7	51/4 45/8 4 3 21/4 21/8		As above but \$109,95 each. As above but \$99,95 each. As above but \$79,95 each.
	M1001 CS42 CS52 CS62 TCS852	19.95 99.95 129.95 179.95 249.95		40 100 120 170 300	90 91 92 93 94	4 4 4 4	$100-10 \pm 3 \\ 120-12 \pm 3 \\ 50-20 \pm 3 \\ 45-20 \pm 3 \\ 40-23 \pm 3 \\ 20-20 \pm 3 \\ \end{array}$	M	4 5 6 8	2223		Yes Yes Yes t	F			Sealed-back midrange. Tube enclosure, †Midrange and
	CS852 CS1052 M82S M102S	249.95 249.95	169.95 199.95	300 300 150 175	94 93 93 93 93 93 93 93	4 4 4 4	$\begin{array}{c} 20-20 \pm 3 \\ 20-20 \pm 3 \\ 50-20 \pm 3 \\ 30-25 \pm 3 \\ 20 25 \pm 3 \end{array}$		(2)8 10 8 10	332232		Yes Yes No No No				tweeter can be installed separately. Woofer has dual voice-coils. Ported box enclosure. As above. As above.
	M103S M8HB M10HB M12HB The Box B800S	199.95 249.95 299.95	249.95 119.95	200 150 200 250 100	93 93 93 95 90	4 4 4 4	$\begin{array}{r} 30 \cdot 25 \pm 3 \\ 40 \cdot 25 \pm 3 \\ 30 \cdot 25 \pm 3 \\ 20 \cdot 22 \pm 3 \\ 45 \cdot 20 \pm 3 \end{array}$		10 8 10 12 8	25222		No No No No				As above: As above: for hatchbacks. As above: As above: Separate box enclosure for each channel.
	The Box B1003S The Box B821H The Box B1203H Monster MW1025 Monster MW8020 MM8012 MM1020	149.95 249.95 54.95 34.95 54.95 54.95 34.95 34.95	199.95	150 100 175 130 120 100 50 75	93 92 95 94 93 93 92 93 95	4 4 4 4 4 4 4 4	$\begin{array}{c} 25 \cdot 20 \pm 3 \\ 30 \cdot 20 \pm 3 \\ 20 \cdot 20 \pm 3 \\ 20 \cdot 2.5 \pm 3 \\ 25 \cdot 3 \pm 3 \\ 30 \cdot 3 \pm 3 \\ 30 \cdot 3 \pm 3 \\ 30 \cdot 2.2 \pm 3 \\ 25 \cdot 3 \pm 3 \\ 20 \cdot 2.5 \pm 3 \end{array}$	s s s s s s s s	10 8 12 12 10 8 8 8 10 12	323		No No No	FFFFFFF	3¾ 3¾ 3½		As above. Box enclosure; for hatchbacks. As above.
	MM1220 T6 T8 T12DV PB6	24.95 99.95 129.95 219.95		90 150 350 400 70	95 100 101 102	4	20-2.5 ± 3	3	12 6 8 12 6				r			Tube enclosure. As above; with dual voice-coils, \$169.95 each. Dual voice-coils. Includes amp with high- and low-level
	P88 PT6			Inc. 70 Inc. 70 Inc.					8							inputs; box enclosure. As above. Includes amp with high- and low-level inputs; tube enclosure.
	PT8 PT46 PT57 PT69 Neo-Titan		64.95 94.95 104.95 99.95	70 Inc. 50 60 75 120	90 92 93 92	4 4 4 4	$\begin{array}{c} 60-22 \pm 3 \\ 45-22 \pm 3 \\ 40-23 \pm 3 \\ 4k-23k \pm 3 \end{array}$	Ţ	8 3½ 4 5¼				P P C	21/4 13/0 13/0 5/0		As above. Fits 6 x 9-inch hole. Includes crossover.
	UT845P UT746P SST1 RT2		42.95 29.95 24.95 69.95	75 60 60 75	91 97 97 92	4 4 4 4	$\begin{array}{c} 2k-20k \pm 3 \\ 5k-23k \pm 3 \\ 5k-23k \pm 3 \\ 2.5k-20k \\ \pm 3 \end{array}$	T T T T					0000	7/10 3/4		As above. As above. As above.
	UT745P UT810P		19.95 42.95	50 60	92 96	4	1k-20k ± 3 1.6k-20k ± 3	Ŧ					F	5%1 7/1		
	UT996P KSN1025A		69.95 16.95	100 150	96 92	4	5k-22k ± 3 1.8k-30k	Ŧ					F F	34 34		Piezo horn.
	KSN1134		13.95	150	92	4	±3 1.9k-30k ±3	Т					F	2		Piezo with acoustic lens.
	KSN1056A KSN1005		9.95 7.95	150 100	92 92	4	4k-30k ± 3 4k-25k ± 3	Ţ					F	2 23/4		Round piezo. Square piezo.
ULTIMATE SOUND/ NEW SUPREMES (Continued)	U6920TX U6920CX U6510TX U6510CX		69.95 59.95 54.95 49.95	75 75 40 40	94 94 93 93	4 4 4	20-23 ±3 20-21 ±3 20-23 ±3 20-21 ±3		6 X 9 6 X 9 6 6	3 2 3 2		No No No No	F F F	31/a 31/a 21/a 21/a		10

AUDIO/MAY 1992

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ULTIMATE SDUND/ NEW SUPREMES (Continued)	U5006CX U4606CX U4006CX U4006W U3506W SPD202		49.95 44.95 42.95 34.95 29.95 89.95	35 45 45 45 45 30 50	92 91 91 91 91 90 92	4 4 4 4 4 4	$\begin{array}{c} 25 - 21 \pm 3 \\ 25 - 21 \pm 3 \\ 25 - 21 \pm 3 \\ 30 - 18 \pm 3 \\ 35 - 18 \pm 3 \\ 45 - 20 \pm 3 \end{array}$	ſ	5 ¹ /4 4 x 6 4 3 4	2 2 2 W W		No No No	FFF	13/4 13/4 13/4 13/4 13/4		
ULTIMATE SDUND/ REFLEX	KL1580 KL1280 KL1050 KL8050 KM6525 KM5210 KM4010	219.95 169.95 139.95 119.95 59.95 34.95 29.95		1k 1k 700 700 150 100 75	96.2 95.6 95 93 93.7 93.2 90.2	48 48 48 48 48 48 48 48	$\begin{array}{c} 20-2 \pm 3 \\ 20-3 \pm 3 \\ 25-3 \pm 3 \end{array}$	S S S W M M	4 15 12 10 8	2		No	S F F F F F	61/8 51/2 43/4 41/8 23/4 21/4 21/4		Box enclosure. Sealed-back midrange. As above.
U.S. BLACK MAGIC	BM-3500B BM-4000B BM-4000B BM-5250 BM-5250 BM-6400B BM-6420 BM-6420 BM-6420 BM-6420 BM-6930 BM-6931 BM-6931 BM-6931 BM-6931 BM-6931 BM-6931 BM-6931 BM-652 BM-6933 BM-1042R 250R BM-1652 BM-693 BM-692 BM-693 BM-692 BM-693 BM-655 BM-655 BM-650 BM-0642 BMA-05630 BMA-05630 BMA-85 BMA-05633 BMA-85 BMA-10563 BMA-12F	9.95 10.50 16.50 42.00 48.95 59.95 74.95 84.95 79.95 99.95 116.95	42.95 49.95 55.00 59.95 69.99 68.25 79.95 122.95 145.95 169.95 89.95 99.95 99.95	30 40 50 50 60 70 70 70 70 70 70 70 90 90 90 130 160 220 50 60 60 60 60 60 240 3000 240 3000 70 90 90 90 90 120 150 160 120 160 240 240 300 240 240 300 240 240 20 50 50 60 80 90 90 90 90 90 90 90 90 90 90 90 90 90	90 89 90 90 91 91 91 91 92 93 93 93 91 92 90 90 90 90 90 91 90 90 91 91	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 120.18\\ 90.18\\ 80.22\\ 65.20\\ 65.19\\ 65.18\\ 65.20\\ 55.22\\ 38.20\\ 39.20\\ 45.30\\ 35.20\\ 35.20\\ 35.20\\ 30.18\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 35.20\\ 30.20\\ 45.3\\ 45.20\\$	₩SSS M SSSSST SSS	$3\frac{1}{2}$ 4 $5x^{2}$ $5x^{2}$ $6\frac{1}{2}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $6x^{9}$ $8x^{10}$ 12 $6x^{9}$ $6x^{9}$ $8x^{10}$ 12 $6x^{9}$ $8x^{10}$ 12 $6x^{9}$ $8x^{10}$ 12 $6x^{9}$ $8x^{10}$ 12 $6x^{9}$ $8x^{10}$ 12 $6x^{9}$ $8x^{10}$ 12 $6x^{9}$ $8x^{10}$ 12 $6x^{9}$ $8x^{12}$ $8x^{1}$ $8x^{1}$	W W 2 2 2 W 2 3 2 3 2 3 2 3 2 3 2 3 2 3	P	No No No No No No No No No No No No No N			N a N a N a N a N a N a N a N a N a N a	Midrange and tweeter.
J.S.D. Vieta Visonik	WaveGuide USD15pro USD12pro USD10pro USD8pro USD1040 USD1040 USD1060 USD1260 USD1240 L120XAL DAVID 5001	430.00 340.00 290.00 80.00 200.00 100.00 150.00 200.00 130.00 180.00	1500.00	100 400 300 100 150 150 200 200 150 250	110 105 100 91 89.6 91.5 93.3 94.7 89.8 94 94	8 4/8 4 B 4 B 4 8 4/8 4/8 6 6 6 4/8 4/8 4	$\begin{array}{c} 600 \cdot 20 \ \pm \ 3\\ 20 \cdot 3 \ \pm \ 3\\ 20 \cdot 3 \ \pm \ 3\\ 30 \cdot 5 \ \pm \ 3\\ 30 \cdot 5 \ \pm \ 3\\ 30 \cdot 1.8 \ \pm \ 3\\ 20 \cdot 3 \ \pm \ 3\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\$	555 55 55 55 55 55 55 55 55 55 55 55 55	15 12 10 8 8 10 10 12 12 12 13				S F F F F F F F F F	5 4 3 3 3 4 4 4 4 4 5 1/2	No No No No No No No No	2 ¹ / ₂ x 18-inch midrange tweeter driver 10-inch-deep enclosure for under-dast mounting.
	DAVID 5001 DAVID 5202 DAVID 5202 + DCN DAVID 7200		370.00 260.00 280.00 420.00	50 60 80 100	82 85 84 88	4 4 4	50-25 50-20 50-20 50-20		4 4 5 ¹ ⁄4	2 2 2 2 2 2		No No Yes	S P t	1½ 1½ 2½	Yes	Includes external crossover. †Flush-mount wooler, surface-mount
VEST COAST UDIO LABS	SP400 SP500 SP500 LF400 LF600 HF13 HF20 SF20 SF25 HP1004	179.00 229.00 279.00	79.00 119.00 159.00 29.00 69.00 89.00 119.00	75 120 150 75 120 150 30 70 50 75 300	89 92 91 90 89 92 93 92 92 92 91	4 4 4 4 4 8 4 4 8 4	55-20 40-20 33-20 55-4 40-4 33-4 2.5k-20k 2.5k-20k 2.5k-20k 2.5k-20k 18-4	W W W T T T T S	41/2 51/4 61/2 41/2 51/4 61/2	2 2 2 2	P P P	Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	21/4 23/8 27/6 21/4 23/8 27/6 5/8 3/4 7/8 1		tweeter. As above.
AMAHA	YCS-3030 YCS-3510 YCS-4021 YCS-4040 YCS-4621 YCS-4625 YCS-5020		60.00 50.00 80.00 80.00 100.00 70.00 90.00	40 50 80 80 70 70 80	93 90 89 88 89 87 90	4 4 4 4 4 4 4 4	6k-20k 80-20 70-20 70-20 70-20 70-20 70-20 60-20	T M	3 ^{1/2} 4 4 x 6 4 x 6 5	W 2 2 W 2		No	S F F F F F	13/4 13/4 13/4 13/4 15/8 15/8 15/8 15/8 13/4	Yes Yes No Yes No Yes	Includes crossover. Fits European cars.

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Speakers

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MANUFACTURER	f	1	90.00	100		4	60-18	M	<u> </u>			/ 5	F	14	No	
VAMAHA (Continued)	YCS-5050 YCS-6010 YCS-6020		70.00	80 120	88 92 92		50-20 50-20		6½ 6½	W 2		l	F	1 3 /4 1 3 /4	Yes	
	YCS-6022 YCS-6060		150.00 120.00	120 100	90 90	4	55-20 55-18		6½ 6½	2			F	1 3/ 4 13/4	Yes	
	YCS-6920 YCS-6921		120.00	180 180 200	93 93	4 4	35-20 35-20		6 X 9 6 X 9 8	22			FF	27/8 27/8 31/2	Yes Yes Yes	
r F	YCS-800 YCS-1010 YCS-1212		200.00 240.00 250.00	200 200 200	93 93 92 93 91	4	20-1 35-1 35-1	W 5 5	10 12				F	41/8 41/2	Yes	
	YTB-A100 YHB-A880	325.00	350.00	200 200	91 92	4	60-20 50-20		10 (2)8 (2)10	2 2 3			·		No No	Box enclosure; for trucks. Box enclosure; for hatchbacks.
Z-BOX	YHB-A1010 C4/911-UDF2	450.00	800.00	280 150	93 89	4	40-20 150-21	\square	(2)10	3	t	No	s		No	As above. Replaces upper door panels of Porsche
													Ι.			Carrera C2 and C4 and Porsche 911. †Angled midrange and tweeter.
	C4-CSW	1050.	800.00	300 400	89 90	4	40-200 Hz 30-200 Hz	5 5	8 10				S S			Replaces rear side panels of Porsche Carrera C2 and C4 and Porsche 911. Replaces rear seating of Porsche
	C4-SW-2 911C-R3(A)	1250.		500	90 89	4	40-21		8	3	t	No	s			Carrera C2 and C4 and Porsche 911. Enclosure; replaces rear deck of
									, in the second				1			Porsche 911. †Angled midrange and tweeter.
	928-S4-SW	650.00		300	89	4	40-200 Hz	8	8			Ma	s s			Enclosed subwooter; replaces rear wall panel of Porsche 928 and 928S4. For upper door panels of Porsche 928.
	928-F2 928-R2		450.00 525.00	150 150	89 89	4	150-21			2	t t	No No	s			Angled midrange and tweeter.
			020.00								•					Porsche 928. †Angled midrange and tweeter.
	MON-UDF2		750.00	150	89	4	150-21			2	t	No	S			Replaces upper door panels of Ferrari Mondial, †Angled midrange and
	MDN-SW		750.00	300	89	4	50-200 Hz	s	8				s			tweeter. Enclosed subwooter for Ferrari Mondial
	348-F2		750.00	150	89	4	150-21			2	t	No	s			console. Replaces upper door panels of Ferrari 348. †Angled midrange and tweeter.
	348-R2		425.00	100	89	4	200-21			2	t	No	s		ſ	Enclosure for rear deck of Ferrari 348. †Angled midrange and tweeter.
	348-SW	500.00		300	88	4	60-200 Hz	S	6				F			Enclosed subwoofer for Ferrari 348 console.
	348-SW-2	1000.		600	89	4	40-200 Hz	\$	6				S			Enclosed subwooler for rear storage shelf of Ferrari 348.
	SL-500-SW	1000.		800	95	4	30-100 Hz	8	10				s			Enclosed subwoofer; replaces rear storage compartment of Mercedes SL-500.
	300E-R3	1300.		500	89	4	50-21		8	3	t	No	s			Enclosure; replaces rear deck of Mercedes 300E. †Angled midrange and
	300CE-R3	1300.		500	89	4	50-21		8	3	t	No	s			tweeter. Enclosure; replaces rear deck of
					ļ			,								Mercedes 300CE. †Angled midrange and tweeter.
	M5-F3		750.00	500	89	4	60-21		6	3		No	S			For front doors of BMW M5. †Angled wooler, midrange, and tweater.
	635-UDF2 635-R3	1200.	750.00	150 500	89	4	40-21		8	2	ET.	No	s			635. †Angled midrange and tweeter. Enclosure; replaces rear deck of BMW
		1100.			90		30-21		10	4		No	s			635. †Angled midrange and tweeter. Enclosure for rear hatch of Corvette;
	VET-R4	1100.		1.2k	30		30-21						ľ			amp rack space provided. †Angled subwoofer, woofer, midrange, and
	VET-F2		425.00	150	89	4	150-21			2	t	No	s			tweeter. For upper door panels of Corvette.
	TA-SW-2	750.		800	90	4	35-20C Hz	s	15				s			tAngled midrange and tweeter. Enclosed subwoofer for rear storage
	T-Bird F-3		800.00	100	90	4	150-21			3	A	No	s			compartment of Camaro and Firebird. Enclosure; overlays front half of
	T-Bird R-2		475.00	60	90	4	150-21			2	Ť	No	s			Thunderbird doors. For rear seat back of Thunderbirds.
	Mustang F-3		550.00	100	90	4	150-21		6	3		No	s			†Angled midrange and tweater. Enclosure for Mustang doors, †Angled
	Mustang F-3 Mustang SW-2		550.00	300	90		30-200 Hz	8	(2)8		1		s			midrange and tweeter.
	TA-F3		450.00	60	89	4	150-21			3	+	No	s			area. For Trans Am doors, †Angled wooler,
							150-21		6	3		No	s			midrange, and tweeter. For doors of Nissan 300ZX, †Angled
	300ZX-F3 300ZX-R2		550.00 400.00	100 60	90 89		150-21			2		No	s			midrange and tweeter. Replaces panel behind front seat of
																Nissan 300ZX. †Angled midrange and tweeter.
	300ZX-SW2		550.00	300	90	4	30-200 Hz	S	(2)8				S			Separate enclosure for each channel; for corners of Nissan 300ZX cargo area.
	2000-LDU		450.00	800	89	4	80-21		6	2	t	Ne	s			Enclosure for lower doors, †Angled
	628-LDU		400.00	400	89	4_	80-21		6	2	t	Ne	s			wooter and tweeter. As above. †Angled wooter and tweeter.
																107

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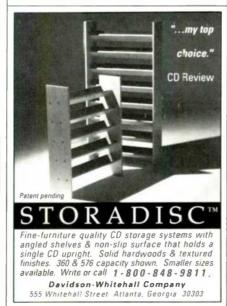
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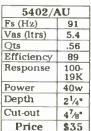
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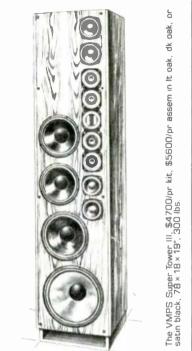
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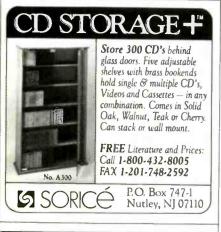
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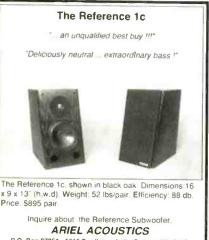
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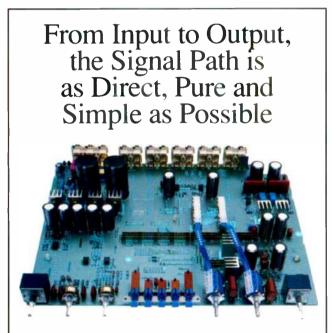
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