

PRODUCT PREVIEW SECTION

Presenting the annual compilation of the new—and some of the old standby—products that will be shown by your hi-fi dealer during the coming months, and at the Fall High Fidelity Music Show.

WHEN THE HI-FI MANUFACTURERS bring forth their annual crop of new and improved products, they are understandably anxious that everyone should know all about them. We are in full sympathy with this desire to the extent that we employ the August issue as a Product Preview, and then—to continue the service—we make the entire section available later in a handy-sized book for continued reference. This book, to be published September 15, is known as the AUDIOGUIDE.

In an attempt to arrive at some sort of uniformity in the descriptions of the products shown, we tried out a new scheme this year. Each manufacturer was furnished forms for each category

of products, with spaces for the information we think is important to the potential purchaser. This had, we opined, two advantages—one being that the manufacturer could choose which item he wished to feature in each category, and the other being the ultimate presentation of the material in a uniform order. The most important thing we learned was how to make forms, but we do believe that more information is provided about the products and in a more consistent form, than heretofore.

We have continued the style of presentation, allowing a listing of up to five items in addition to the principal one, but without description in detail. Thus we have 38 pages of information

in this issue—and nearly 12 more of AUDIO size will be added in the AUDIOGUIDE. The additional material consists of more illustrations and a few items which had to be eliminated because of space. We hope, however, that the new form of data presentation meets with readers' approval.

The specifications given are those provided by the manufacturer. Prices quoted may vary between East and West, but only one price is shown. In any instance, for further information about any product described or listed but not described, just write to the manufacturer at the address given—he will be glad to hear from you.

BASIC AMPLIFIERS

ALTEC

• **351A Solid-State Power Amplifier.** The 351A is a 50-watt transistor amplifier for mono, stereo, third channel or hi fi music distribution use. It has the advantage of smaller size, lighter weight, less power consumption, and less heat generation than any vacuum tube counterpart. It provides 8 and 16 ohm speaker connections, plus an isolated 70 volt line (125 ohm) output for distributing sound to other speakers located throughout the house. The 351A represents an achievement in circuit design in that the rated power is developed over essentially the entire audio band at low distortion. Common power transistors become very "lossy" in the upper audio range and destroy themselves if operated continuously in that area. The 351A uses one of the most costly types, known as the "diffused-alloy transistor" to achieve its excellent high frequency performance.

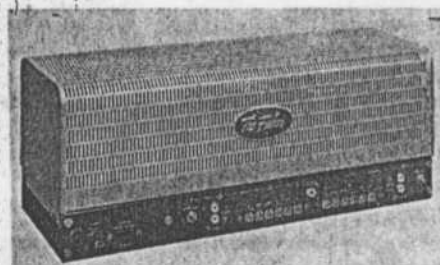


Specifications: Transistor complement 9; Freq. resp. 20 to 20,000 cps ± 1 db; IHFM music power output, 50 watts; hum and noise, 90 db below rated watt output; sensitivity, input for rated output, 0.45 volts; damping factor, 7.5; output impedances, 4, 8, 16, 125 (70.7 \sqrt{v}) ohms; weight, 14.5 lbs; dimensions: 9 $\frac{1}{2}$ " wide, 4 $\frac{3}{4}$ " high, 8 $\frac{1}{4}$ " deep; price, \$234.00. Altec Lansing Corp., 1515 S. Manchester Ave., Anaheim, California.

FISHER

• **Model SA-300-B 90-Watt Stereo Power Amplifier.** Consisting of two identical basic amplifier channels for both stereophonic or monophonic reproduction, the SA-300-B offers laboratory quality at a fraction of the usual cost of equipment of this calibre. Hum and noise content is less than 1/1000th of 1% of full rated output! A center-channel output is included for connection to a third amplifier and loudspeaker system to fill the center of the stereophonic sound pattern.

Specifications: Tube/transistor complement 10 tubes and 1 selenium rectifier; freq. resp. 20 to 20,000 cps ± 0.5 db at 30 rms watts output; power bandwidth, 15 to 50,000 cps; IHFM music power output, 45 watts per channel; power output, rms, 38 watts per channel; harmonic distortion, 0.5% at 40 watts from



20 to 20,000 cps; IM distortion, 0.3% at 45 watts; hum and noise, 100 db below 1 watt output; sensitivity, input for rated output, 0.8 volts; damping factor, variable; output impedances, 4, 8, 16 ohms; controls, a.c. bal., bias adj., hum, separate input levels, d.c. bal.; switches, a.c. balance; convenience outlets, 1; weight, 32 lbs; dimensions, 16 $\frac{1}{2}$ " wide, 6 $\frac{1}{2}$ " high, 7 $\frac{1}{4}$ " deep. Price, \$199.50 assembled. Fisher Radio Corp., 21-21 44th Drive, L. I. C., N. Y.

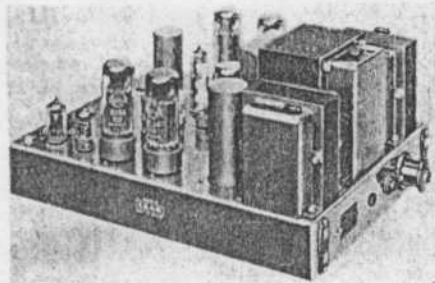
1. Model SA-100 50-Watt Laboratory Standard Stereo Amplifier\$119.50

LEAK

• **"Stereo 60" Amplifier.** Engineered for top-level performance, the Leak "Stereo 60" provides sufficient undistorted power to drive any modern speaker system.

Specifications: Tube complement (5) ECC83,

(4) EL34 (1) GZ34; Freq. Resp. 20 to 20k cps ± 0.5 db at 30 watts output; power output, rms, 30 watts per channel; harmonic



distortion, 0.1% at 30 watts; hum and noise, 80 db below 30 watt output; sensitivity, input for rated output, 120 mv; damping factor, 25; output impedances 4, 8, 16 ohms; convenience outlets 1; weight 27 $\frac{1}{2}$ lbs; dimensions: 10 $\frac{1}{2}$ " wide, 13 $\frac{1}{2}$ " high, 6 $\frac{1}{2}$ " deep; price, \$219.00. Ercona Corp., 16 W. 46th St., New York, N. Y.

1. "Stereo 20" Amplifier\$149.00

MARANTZ

• **Model SB Dual 35-watt Stereo Amplifier.** Long considered amongst the top as a stereo amplifier, the Model SB offers more than per-



formance; it offers performance at top level for a long time. All components are used conservatively, as well as being of the finest quality. Construction practice is professional.

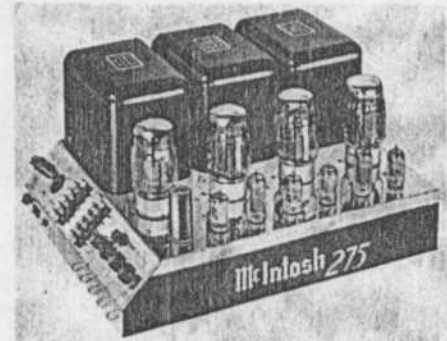
Specifications: Tube complement (2) 6BH6, (2) 6CG7, (4) EL-34; freq. resp. 20 to 20k

cps ± 0.1 db at 35 watts output; power bandwidth, 15 to 40k cps; power output, rms, 35 watts per channel; harmonic distortion, 0.5% at 35 watts from 20 to 20k cps; IM distortion, 0.5% at 35 watts; hum and noise, 80 db below 1 watt output; sensitivity, input for rated output, 1.3 volts; damping factor, 20; output impedances, 4, 8, 16 ohms; controls, bias adjust, meter; switches, test; weight, 50 lbs; dimensions, 13 $\frac{1}{2}$ " wide, 7 $\frac{1}{4}$ " high, 10 $\frac{1}{2}$ " deep; price, \$264.00. Accessories, 8G Grille \$9.00 Marantz Company, 25-14 Broadway, L.I.C., N.Y.

1. Model 9, 70-w mono power amp\$324.00
2. Model 9, 70-w, 70.7 volt output 354.00

McINTOSH

• **Dual 75-watt Amplifier Model 275.** The reserve built into every "Mac" and the quality of component parts frees you from making critical adjustments. McIntosh has better performance with no bias controls and no balance controls. Of all amplifiers made and advertised, only McIntosh offers such low distortion with such reserve power. The patented McIntosh unity-coupled circuit makes this possible.

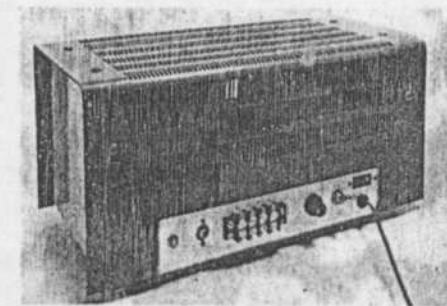


Specifications: Freq. resp. 16 to 60,000 cps ± 0.25 db; output, rms, 75 watts per channel; harmonic distortion, less than 0.5% at 75 watts from 20 to 20,000 cps; IM distortion, less than 0.5 at 75 watts; hum and noise, 90 db below rated output; sensitivity, input for rated output, 0.5 volts; output impedances, 4, 8, 16 ohms stereo, 2, 4, 8, 16, 32 mono; controls, 4 separate input gain; switches, power, stereo/mono; weight 67 lbs; dimensions, 17 $\frac{1}{4}$ " long, 8" high, 12 $\frac{1}{4}$ " wide; price, \$444.00, McIntosh Laboratory Inc., 2 Chambers St., Binghamton, N. Y.

1. MC 225, dual 25-w amp\$198.00
2. MC 240, dual 40-w amp 288.00
3. MC 75, mono 75-w amp 229.50

PIONEER

• **HF-90M, Monophonic Basic Amplifier.** The Model HF-90M is a power amplifier with a maximum output of 100 watts and is suited for use as a professional playback component when used in conjunction with a preamplifier. One use would be in a large auditorium or dining room.



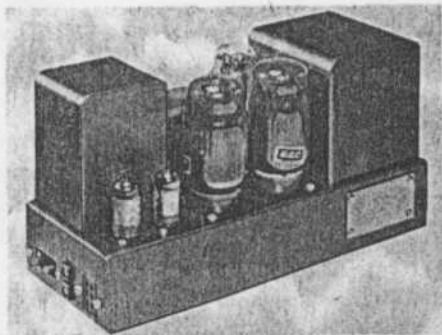
Specifications: Tube complement (3) tubes, (3) silicon diodes; freq. resp. 20 to 30,000 cps ± 1 db at 70 watts output; power bandwidth, 20 to 30,000 cps; IHFM music power output, 100 watts; power output, rms 80 watts; harmonic distortion, 1% at 80 watts at 1 k cps; IM distortion, 1% at 80 watts; hum and noise, 75 db below 1 watt output; sensitivity, input for rated output, 0.9 volts; output impedances, 4, 8, 16 ohms; controls,

level control; switches, power switch; weight, 26.5 lbs; dimensions, 14 $\frac{1}{4}$ " wide, 7 $\frac{1}{4}$ " high, 8 $\frac{1}{4}$ " deep. Pioneer Electronic Corp., 5 Otowacho 6-chome, Bunkyo, Tokyo, Japan.

1. HF-90 MH, 200-ohms output

QUAD

• **QUAD II Power Amplifier.** The QUAD II is designed to operate with the QUAD 22 control unit and therefore has no controls or switches. Stability and performance are independent of signal or load conditions so that this amplifier is suitable for use with any speaker system. A feature of this unit is its ability to maintain its specified performance even when tubes are replaced at random.



Specifications: Tube complement EF86(2), KT66(2), GZ32; Freq. resp. 10 to 50k cps ± 0.5 db at 1 watt output; power bandwidth, 20 to 15k cps; IHFM music power output, 11.5 watts per channel; power output, rms, 23 watts per channel; harmonic distortion, 2% at 23 watts; IM distortion, 1/2% at 25 watts; hum and noise, 80 db below 1 watt output; sensitivity, input for rated output, 1.4 volts; damping factor, 10; output impedances, 8, 16 ohms; weight, 18 $\frac{1}{4}$ lbs; dimensions, 13" wide, 4 $\frac{1}{2}$ " high, 6 $\frac{1}{2}$ " deep; price, \$125.00. Lectronics of City Line Center, 7644 City Line Ave., Philadelphia, Pa.

RAVENSWOOD

• **Model PA 800 Dual-45-watt Power Amplifier.** A high-power amplifier designed for the finest of systems and especially to drive heavy-duty speakers, the PA-800 is ideal for installation in systems which permit out-of-sight location and thus require no expensive housings for the amplifiers.

Specifications: Tube complement (2) 7199, (4) EL34; Freq. resp. 20 to 30,000 cps ± 0.5 db; IHFM music power output, 65 watts per channel; harmonic distortion, 0.6%; IM distortion, 1.1% rated output; hum and noise, 80 db below 1 watt output; dimensions: 16" wide, 5 $\frac{1}{2}$ " high, 6 $\frac{1}{4}$ " deep; price, \$199.95. RAVENSWOOD, Edgewood & McGuckian Sts., Annapolis, Md.

H. H. SCOTT

• **208 80-Watt Stereo Power Amplifier.** A moderate power basic amplifier featuring low distortion. Well suited for most modern systems in conjunction with a preamplifier.

Specifications: Tube complement 6 tubes and selenium rectifier; Freq. resp. 20 to 20k cps ± 1 db at 10 watts output; power bandwidth 19 to 25k cps; IHFM music power output, 40 watts per channel; power output, rms, 36 watts per channel; harmonic distortion, 0.8% at 10 watts from 20 to 20k cps; IM distortion 0.5% at 10 watts; hum and noise, 80 db below 1 watt output; sensitivity, input for rated output, 1.5 or 2.5 volts; damping factor, 16.1; output impedance, 4, 8, 16 ohms; convenience outlets, 1; weight 27 lbs; dimensions, 16" wide, 5 $\frac{1}{4}$ " high, 7" deep; price, \$134.95. H. H. Scott, Inc., 111 Powdermill Rd., Maynard, Mass.

SHERWOOD

• **S-360 40-Watt Basic Mono Amplifier.** The S-360 is a basic power amplifier with 40-watt music power output. Its long life and minimum distortion have won for it selection on such vital government installations as the Astronaut Project Mercury. Its compact size

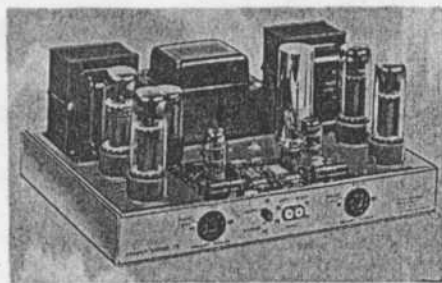
makes it especially convenient for use as a 3rd-channel amplifier or as a booster amplifier (in pairs for stereo) for remote speaker installations.

Specifications: Tube complement (4) 7189, 12AX7, GZ34; freq. resp. 20 to 20k cps ± 2 db at 36 watts output; IHFM music power output, 40 watts per channel; power output, rms, 36 watts per channel; harmonic distortion, 0.7% at 36 watts from 25 to 20k cps; IM distortion, 1 $\frac{1}{2}$ % at 40 watts; hum and noise, 75 db below 1 watt output; sensitivity, input for rated output, 0.18 volts; damping factor, 10; output impedances, 4, 8, 16 ohms; controls, sensitivity, output tube balance; switches, output tube test; convenience outlets, 1; weight, 15 lbs; dimensions, 13 $\frac{1}{2}$ " wide, 6" high, 4 $\frac{1}{4}$ " deep; price \$59.50. Accessories: case, \$6.00. Sherwood Electronic Labs, Inc., 4300 N. California Ave., Chicago 18, Ill.

BASIC AMPLIFIER KITS

DYNACO

• **Stereo 70 Dual 35-watt Stereo Power Amplifier Kit.** Includes pre-assembled etched circuit for maximum reliability and ease of construction plus Dynaco output transformers. Stable with any loudspeaker, with excellent damping and square wave and pulse test performance. Output tubes operated at only 65% of capacity and filter capacitors at less than 85% of rated voltage—really conservative design.



Specifications: Tube complement; (4) EL34, (2) 7199, GZ34, selenium rectifier; Freq. Resp. 10 to 40 k cps ± 0.5 db at 1 watt output; power bandwidth, 20 to 20 k cps. IM distortion 1% at 35 watts; hum and noise, 74 db below 1 watt output; sensitivity, input for rated output, 1.3 volts; damping factor, 15; output impedances, 4, 8, 16 ohms; controls, biaset for each channel; switches on-off/stereo-mono; weight 28 lbs; dimensions, 13" wide, 9 $\frac{1}{2}$ " high 6 $\frac{1}{2}$ " deep. Price \$129.95 assembled, \$99.95 kit, including protective cover. Dynaco Inc. 3912 Powelton Ave., Philadelphia, Pa.

1. Mark III 60-watt mono amp kit ...\$ 79.95
2. Mark III-70 60-watt amp kit with usual and 70-70 output 84.95
3. Mark III-500 60-watt amp kit with either 500 or 125 output 89.95
4. Mark IV 40-watt mono amp kit 59.95
5. Stereo 35, dual 17.5-watt amp kit (new Nov. 1962) 59.95

EICO

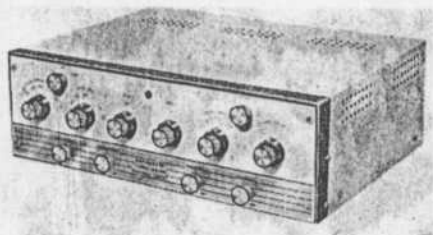
• **HF89 100-Watt Stereo Power Amplifier Kit.** Each power amplifier section of the HF89, conservatively rated at 50 watts, employs the proven cathode-coupled phase-inverter-driven circuit, preceded by a direct-coupled voltage amplifier. Fixed-biased, push-pull EL34's are used in the output stage and provision is made for both bias and d.c.-balance adjustments. The very-low-impedance characteristics of silicon diode rectifiers give the common power supply for the two amplifiers very good regulation, so that signal conditions in one amplifier have negligible effect

tivity, input for 1 volt output, phono, 1.4 mv tuner, 0.1 volts; hum and noise, 75 db below 1 volt output. Tube complement, (4) 7247, (1) 6Z80, (5) 12AX7/ECC83; weight, 18 lbs; dimensions, 15½" wide, 4 13/16" high, 12" deep. Price, \$199.50. Accessories: Cabinet—Wood (10-U) @ \$24.95; Metal in sim. leather (MC-2) @ \$15.95. Fisher Radio Corp., 21-21 44th Drive, L.I.C., N. Y.

LAFAYETTE

• **LA-600A Stereo Preamp.** The LA-600A is a "no-compromise" preamp with twelve input jacks (six pairs) for program sources of any type or level.

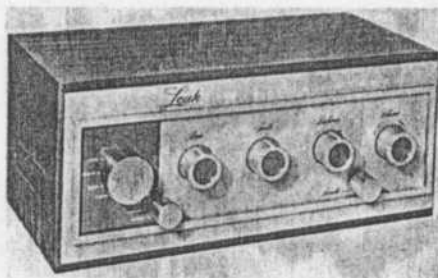
Specifications: Inputs, mag. phono, ceramic phono, tape head, tuner, aux; controls—roll-off, turnover, 2 pair bass and treble, bridge; switches—on-off, tape monitor, rumble filter, scratch filter, presence, loudness, function;



outputs—main, 1500 ohms, 4 max. volts; recording, 2700 ohms, 2 volts; freq. resp. 5 to 40,000 cps ± 1 db; harmonic distortion, 0.1% at 2 volts from 30 to 15,000 cps; IM distortion, .05% at 2 volts; sensitivity, input for 1-volt output—phono, 2.2 mv, tuner, 0.094 volts; hum and noise, 80 db below 2-volt output; tube complement, (7), 7025, (2) selenium rectifiers; weight, 16 lbs; dimensions, 14" wide, 4-13/16" high, 11½" deep. Price, \$134.50 assembled, \$79.50 kit. Lafayette Electronics, 111 Jericho Turnpike, Syosset, L.I., N.Y.

LEAK

• **"Point One" Stereo Preamp.** Impressive new styling enhances the appearance of the latest version of the well-known Leak "Point One" stereo preamplifier. Decorator-designed, the new front panel offers changeable color panels for both faceplate and knobs, enabling the user to match the decor of any room. The new escutcheon plate is interchangeable with the present one, permitting present owners the option of inexpensive conversion to the new styling. The "Point One" includes provisions for playing stereo, stereo reverse, left channel only, right channel only, and monophonically.



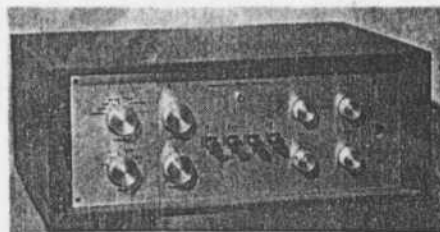
Specifications: Inputs: records, tape, mike, tuner, tape head; controls: bass, treble, balance, volume, rumble, filter; switches: function (5 position), input; freq. resp. 20 to 20k cps; harmonic distortion 0.01% at 125 mv; IM distortion 0.01% at 125 mv; sensitivity, input for 125 mv output, phono 3.5 mv, tuner, 35 mv; hum and noise, 60 db below 1 volt output. Tube complement (4) 6F86; weight 5½ lbs; dimensions: 10½" wide, 3¾" high, 5" deep. Price \$119.50. Ercona Corp., 16 W. 46th St., New York, N. Y.

MARANTZ

• **Model 7C Stereo Control Unit.** The Model 7C is a stereo control center with sufficient built-in flexibility to make it "up-to-date" for a long time to come. In addition it is built to last that long, using the professional cabling

and other construction techniques common to Marantz products.

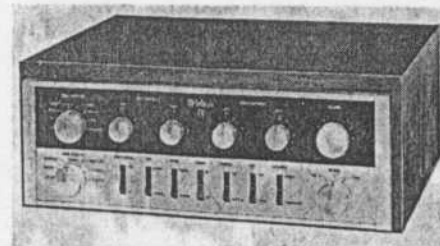
Specifications: Inputs: mike, phono 1 and 2, tape head, FM-AM, FM-mpx, TV aux; controls: mode, selector, vol., balance, treble, bass; switches: on-off, hi and low cut, boost, tape monitor, record equal; outputs: main, cathode follower, 100k and above (load), 10 max. volts;



freq. resp. 20 to 20k cps ± 0.5 db at 10 volts; IM distortion, 0.01% at 2 volts; sensitivity, input for 1 volt output, phono 0.6 mv tuner, 0.075 volts; hum and noise, 80 db below 10 mv on phono and hum below thermal noise. Tube complement, (6) ECC83/12XA7; weight, 20 lbs; dimensions, 14¾" wide, 6¾" high, 3½" deep. Price, \$264.00 assembled. Accessories: wooden cabinet for above \$24.00. Marantz Company, 25-14 Broadway, L.I.C., N.Y.

McINTOSH

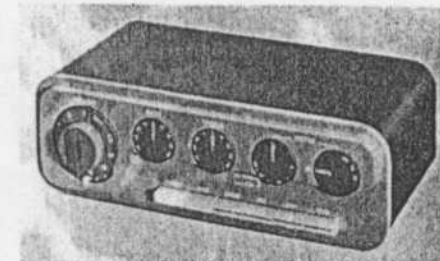
• **C11 Stereo Preamplifier.** This preamplifier puts precision sound control at your fingertips, and increases the usefulness and enjoyment of any stereo system. Among its many features are: illuminated panel for important controls, simple rocker-action switches for secondary controls; floating panel for low-level inputs with single ground point to prevent induced hum loops from associated equipment; and shielding against TV and r.f. interference.



Specifications: Inputs: Aux, tape, tuner (2), phono (2), tape head, tape mon, mic; controls: selector, mode, volume, balance, 2 bass, 2 treble; switches: reo compensator, tape mon, reverse, power, rumble, scratch, loudness; outputs: main, 2.5 max. volts; recording, 0.25 volts; freq. resp. 20 to 20,000 cps ± 0.5 db; total distortion, less than .05% at 3 volts from 20 to 20,000 cps; sensitivity, input for 2.5-volt output, phono, 2 mv, tuner, 0.25 volts; hum and noise, less than 1.5 μ v input noise level; weight, 15 lbs; dimensions, 15¾" wide, 5½" high, 12" deep. Price, \$229.50. McIntosh Laboratory, Inc., 2 Chambers St., Binghamton, N. Y.

QUAD

• **QUAD 22 Stereo Control.** The QUAD 22 control unit features pushbuttons for selection of equalization or mode. The other front panel controls, in conjunction with the pushbuttons, provide all the controls and flexibility necessary to operate a modern stereo system. Plug-in units are available to match most available cartridges. The QUAD 22 is designed to operate with two QUAD II power

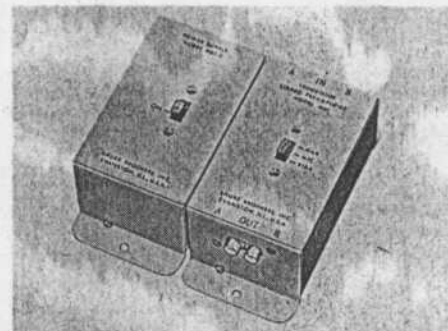


amplifiers for stereo although it can operate with only one for mono.

Specifications: Inputs: (2) phono, tape, (2) tuner, mic; controls: On-Volume, balance, treble, bass, filter slope, filter range; switches: stereo, mono, radio, mic, disc, tape; outputs: main, 0.25 meg ohms, 1.4 max. volts; recording, 0.25 meg ohms, 0.25 volts; freq. resp. 20 to 20k cps $\pm 1/2$ db at 1.4 volts; harmonic distortion, 0.02% at 1.4 volts from 20 to 20k cps; IM distortion, 0.1% at 1.4 volts; sensitivity, input for 1 volt output, phono 4 mv, tuner, 0.25 volts; hum and noise, 70 db below 1 volt output. Tube complement, (2) 6F86, (2) ECC83; weight, 6 lbs; dimensions, 10½" wide, 3½" high, 5 1/16" deep. Price, \$150.00. Lectronics of City Line Center, 7644 City Line Ave., Philadelphia, Pa.

SHURE

• **Series M61-1—Transistorized Stereo Preamplifier.** Compact, rugged, transistorized unit with choice of a.c. line or battery power supply. Unique design permits extreme flexibility of installation and use—can be mounted in vertical or upright position or upside down. Slide-selector switch offers three equalization inputs: (1) "phono" for conversion of ceramic phono inputs for use with magnetic cartridges; (2) "tape" for equalization of tape playback directly from tape head



through hi-fi control preamplifier and (3) "microphone" for flat amplification wherever a boost in microphone output is required.

Specifications: Inputs: phono, tape, microphone; controls: None; switches: on-off positions; freq. resp. 25 to 15,000 cps $\pm 2 1/2$ db; hum and noise, 50 db below 1 volt output; weight, 1¼ lbs; dimensions, 5¼" wide, 2" high, 5¼" deep. Price, \$27.50. Shure Bros., 222 Hartrey Ave., Evanston, Ill.

1. M61-3, same as above, with 30-volt battery supply \$26.50
2. M65, stereo conversion preamplifier .. 24.00
3. M60, stereo line preamplifier 19.95

PREAMPLIFIER KITS

DYNACO

• **PAS-2 Stereo Preamplifier Control Unit.** Includes preassembled etched circuit boards for maximum reliability and ease of construction. Complete feedback design, virtually incapable of overload.



INTEGRATED AMPLIFIERS

ALTEC

Model 353-A Amplifier-Preamplifier. The Altec-Consolidated Model 353-A, is a complete amplifier system, embodying two 25-watt stereo channels which may be combined for 50-watt monophonic operation when desired. Among its features is a matrixing network for "three-channel" stereo. Circuitry includes edback-type equalization plus feedback around all tubes for minimum distortion. All w-level tubes have d.c. on heaters. Fourteen inputs include two each for magnetic cartridge, ceramic cartridge, tape head, tape recorder, tuner, microphone, and multiplex.



Specifications: Tube complement (5) 12AX7, (1) 6L6GC; freq. resp. 20 to 20,000 cps ± 1 db at 25 watts output; power output, rms, 25 watts per channel; harmonic distortion, 1% at 20 watts from 30 to 15,000 cps; hum and noise, 82 db below rated output; sensitivity, input for rated output—phono, 2.5 v, tuner, 0.25 volts; damping factor, 4; output impedances, 4, 8, 16 ohms; inputs—phono, 2 tape head, 2 tape amp, 2 radio, 2 lc, 2 mp; weight, 35 lbs. Dimensions, 15" wide, 5 1/2" high, 11 1/4" deep. Price, \$225.00. Altec Lansing Corp., 1515 S. Manchester Ave., Anaheim, Calif.

BELL

Model 2440 44-watt Stereo Amplifier System. This compact unit offers all the features anyone needs for the home reproduction of music from a wide variety of sources.

Specifications: Freq. resp. 20 to 20,000 cps ± 1 db at 1 watt output; power bandwidth, 5 to 20,000 cps; IHFM music power output, 2 watts per channel; power output, rms, 20 watts per channel; harmonic distortion, 1% at 20 watts from 50 to 15,000 cps; IM distortion, 1% at 20 watts; hum and noise, 63 db below 1 watt output; sensitivity, input for rated output—phono, 3 mv, tuner, 0.1 volts; damping factor 4; output impedances, 4, 8, 16 ohms and high Z for recorder; inputs—phono, 2 tape head, 2 tape amp, 2 aux, 2 ceramic phono; weight, 28 lbs. Dimensions: 7 3/16" wide, 5 7/16" high, 10 5/8" deep. Bell Sound Division, Thompson Ramo Woolridge, Inc., 6325 Huntley Rd., Columbus, Ohio.

BOGEN

Model AP250 Stereo Amplifier. This unit offers control flexibility for stereo and mono sound sources. 50-watt output (25 per channel). Special blend control light indicates maximum or minimum stereo balance. New, special front-end tubes keep noise and hum at an unusually low level. The AP250, as all Bogen hi-fi stereo components, is finished in brushed aluminum.

Specifications: Tube/transistor complement 2 tubes plus 2 silicon rectifiers and 1 selenium rectifier; Freq. resp. 20 to 30,000 cps ± 1 db at 2.5 watts output; power bandwidth, 0 to 15,000 cps; IHFM music power output, 5 watts per channel; power output, rms 22 watts per channel; harmonic distortion, 0.6% at rated output; IM distortion 0.3% at 2.5 watts; hum and noise, 50 db below 1 watt; sensitivity, input for rated output—phono, 4.5 mv, tuner, 0.5 volts; output impedances, 4, 8, 16 ohms; inputs—1 set phono, 1 set tape head, 1 set aux, 1 set tuner; weight, 10 lbs. Dimensions, 15" wide, 4 1/4" high, 11 1/2" deep. Price \$154.95. Accessories: EN-9 metal enclosure \$11.95; WB-9 walnut cabinet \$26.95. Other features: tape monitor facility,

ties, stereo headphone jack, stereo indicator light, 3rd channel output. Bogen Communication Div., Lear Siegler, Inc., Paramus, N. J.

1. AP30 Stereo Amplifier \$99.95

ERIC

Model "Dual Twenty" Amplifier Model 3160T. This all-new Eric Stereo Amplifier is a masterpiece of performance and design. It features a transistorized preamplifier for magnetic cartridges to eliminate hum and microphonics, along with the normal complement of tone, loudness, and balance controls. Phono equalization compensates for RIAA, EUR, and LP records.

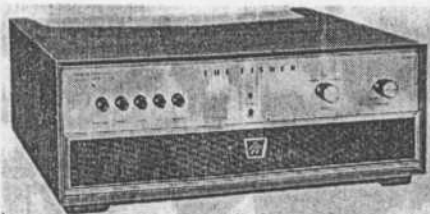
Specifications: Tube/transistor complement (2) 12AX7, (2) 7247, (1) 6BQ5, (1) G234, (2) 2N448. Freq. resp. 20 to 20,000 cps ± 1 db at 1 watt output; power output, rms, 20 watts per channel; harmonic distortion, 1% at 20 watts; IM distortion, 0.4% at 17 watts; hum and noise, 70 db below rated output; sensitivity, input for rated output—phono, 2.0 mv, tuner, 0.5 volts; output impedances, 4, 8, 16 ohms; inputs—2 phono, 2 tape amp, 2 aux, 2 tuner; weight, 17 lbs. Dimensions, 13 1/4" wide, 4 5/16" high, 11" deep. Price \$106.20. Eric Electronics Corp., 1823 Colorado Ave., Santa Monica, Calif.

1. "Dual Ten" Model 3460P, 10/10-w amp \$ 79.95
2. Model 3560T, 25/25-w amp 149.95
3. Model 3459T, 17-w mono amp 69.95

FISHER

Model X-101-C 60-Watt Integrated Stereo Amplifier. Featuring design for simplicity of operation, the new Fisher X-101-C has all controls which are not commonly used behind a handsome panel, thus allowing even the uninitiated to operate this control center without confusing them with the large variety of controls.

Specifications: Tube complement 10 tubes, 2 silicon rect.; Freq. resp. 20 to 20,000 cps ± 1 db at 1 watt output; power bandwidth, 16 to 30,000 cps; IHFM music power output, 30 watts per channel; power output, rms, 27



watts per channel; harmonic distortion, 0.5% at 27 watts at 1 kc; IM distortion, 0.8% at 30 watts; hum and noise, 88 db below full output; sensitivity, input for rated output—phono 3.5 mv, tuner 0.3 volts; damping factor 10; output impedance 4, 8, 16 ohms; inputs—2 phono, 2 tape head, 2 tape amp, 2 aux, 2 tuner; weight 24 lbs. Dimensions: 15 1/2" wide, 4 13/16" high, 12 1/2" deep. Price \$199.50. Fisher Radio Corp., 21-21 44th Drive, L.I.C., N. Y.

1. X-100-B, ster audio control w. 50-w ster amp \$169.50
2. X-202-B, ster audio control w. 80-w ster amp 249.50
3. X-1000, ster audio control w. 110-w ster amp 339.50

GROMMES

Model 70PG Integrated Amplifier. New compact high powered stereo amplifier with 70 watts of music power and featuring new RCA 78G5 power tubes, silicon power supply and voltage regulation. Wide-range bass and treble controls, feedback loops for each stage and oversize output transformers result in clean, distortion-free sound. Provision for center-channel speaker.

Specifications: Tube/transistor complement 6-6EU7, 4-7868, 1-7868 regulator, 5-silicon rectifiers. Freq. resp. 20 to 20,000 cps ± 1 db at 1 watt output; power bandwidth, 30 to 20,000 cps; IHFM music power output, 35 watts per channel, power output, rms, 30 watts per channel; harmonic distortion, 2% at 30 watts

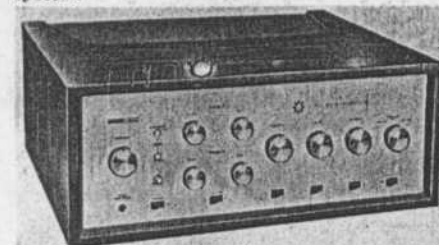


from 30 to 15,000 cps; IM distortion, 1% at 30 watts; hum and noise, 66 db below 1 watt output; sensitivity, input for rated output—phono, 3 mv, tuner, .25 volts; damping factor 10; output impedances, 4, 8, 16 ohms; inputs—1 Mag phono, 1 tape head, 1 tuner, 1 aux; weight, 27 lbs. Dimensions 14" wide, 4 1/2" high, 11" deep. Price, \$199.95 assembled; accessories, cover, \$7.50. Precision Electronics, Inc., 9101 King St., Franklin Park, Ill.

1. 36PC, dual 20-w amp \$129.95
2. 24PC, dual 12-w amp 89.95

HARMAN-KARDON

Model A500 Award Amplifier. An integrated amplifier with complete flexibility to handle the full variety of program sources required of the modern system. Power output is sufficient to handle even an inefficient speaker system.

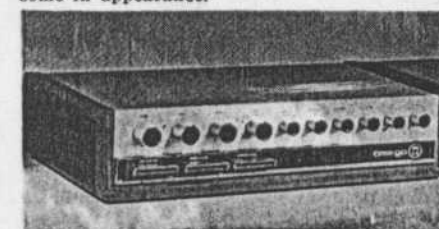


Specifications: Tube complement, (4) 7355, (1) 12AU7, (4) 12AX7. Freq. resp. 12 to 70,000 cps ± 1 db at 1 watt output; power bandwidth, 20 to 20,000 cps; IHFM music power output, 25 watts per channel; power output, rms, 20 watts per channel; harmonic distortion, 0.5% at 20 watts from 20 to 20,000 cps; IM distortion, 0.5% at 20 watts; hum and noise, 85 db below rated output; sensitivity, input for rated output—phono, 1.5 mv, tuner, 0.25 volts; damping factor 10+; output impedances, 4, 8, and 16 ohms; inputs—4 phono, 2 tape head, 2 tape amp, 2 aux; weight, 32 lbs. Dimensions, 15 1/4" wide, 5 7/16" high, 12" deep. Price, \$159.95 assembled. Accessories, WW50 cabinet, \$29.95; CX50 cage, \$12.95. Harman-Kardon, Inc., Plainview, N. Y.

1. A300, AWARD 30-w ster amp \$ 99.95
2. A10, mono 10-w amp 49.95

OMEGA

Model 1600 All Transistor Integrated Stereo Amplifier. Embodying many fine features, as well as being transistorized, the Model 1600 is designed to operate in the finest audio systems. Some of the features include a patented bridge output circuit which delivers more power into the load; a system of balancing the volume, bass, and treble of the two stereo channels so that only one master control need be used thenceforth. In addition, the Model 1600 is extremely handsome in appearance.

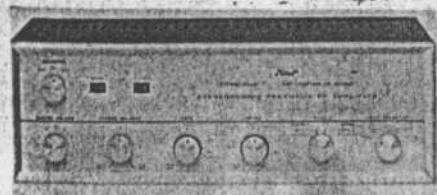


Specifications: Transistor complement 31 transistors, 7 diodes; Freq. resp. 18 to 20 kc cps ± 0.3 db at 30 watts output per channel; power bandwidth, 18 to 20 kc cps; IHFM music power output, 30 watts per channel; power output, rms, 25 watts per channel; harmonic distortion, 1% at 30 watts at 1 kc; IM dis-

ortion, 1% at 30 watts; hum and noise, 75 db below rated output; sensitivity, input for rated output—phono, 4 mv, tuner, 0.3 volts; output impedance, 8, 16 ohms; inputs—4 phono, 2 tape head, 2 tape amp, 2 aux, 2 TV; weight, 12 lbs. Dimensions: 15½" wide, 5" high, 9" deep. Price, \$249.00. Omega Electronics Corp., 10017 North 19th Ave., Phoenix 21, Arizona.

PILOT

• **Model 240, 30-Watt Integrated Stereo Amplifier.** This rugged, extremely versatile component is one of the most popular instruments Pilot has ever offered. The five pairs of stereo inputs can accommodate virtually every source of stereo music. Eleven front panel controls assure complete operational flexibility. The instrument even has a speaker selector for control of extension speakers in other rooms. In addition to the usual speaker outputs, the 240 has a special pair of outputs for connecting to a center speaker, for three-speaker stereo, or for monophonic listening in another room.



Specifications: Tube complement (4) EL84, (2) 7025/12AX7, (3) 12AX7, (1) GZ34; Freq. resp. 10 to 30,000 cps ± 1 db at 1 watt output; power bandwidth, 50 to 10,000 cps; IHFM music power output, 15 watts per channel; power output, rms, 12 watts per channel; harmonic distortion 1% from 70 to 8000 cps; IM distortion, 2% at 8 watts; hum and noise, 70 db below 1 watt output; sensitivity, input for rated output—phono, 3 mv, tuner, 0.1 volts; damping factor 4; output impedances, 4, 8, 16 ohms; inputs—2 phono, 2 tape head, 2 tape amp, MX, FM-AM; weight, 23 lbs. Dimensions, 14½" wide, 5½" high, 11¾" deep. Price, \$134.50. Pilot Radio Corp., 37-06 36th St., L.I.C. 1, N. Y.

1. Model 230, 24-watt stereo amplifier with cover \$ 89.50
2. Model 246, 60-watt stereo amplifier with cover 199.50
3. Model 248B, 74-watt stereo amplifier less cover 269.50

PIONEER

• **SM-801, Integrated Stereo Amplifier.** The newly announced Pioneer Model SM-801 is a professional quality stereophonic amplifier incorporating on one chassis two power amplifiers—each channel with a maximum rated output of 45 watts—and two extremely sensitive and highly versatile preamplifiers. With its high output, it is ideally suited for use in large concert halls, auditoriums, or other similar applications that call for a large amount of driving power.

Specifications: Tube complement 10 tubes and 4 diodes; Freq. resp. 20 to 100,000 cps ± 1 db at 500 mw output; power bandwidth, 20 to 100,000 cps; IHFM music power output, 45 watts per channel; power output, rms 35 watts per channel; harmonic distortion, 1% at 35 watts at 1 k cps; IM distortion, 1% at 35 watts; hum and noise, ± 50 db below 1 watt output; sensitivity, input for rated output—phono, 37 mv, tuner, 2.40 mv; damping factor 8; output impedance, 8, 16 ohms; inputs—7 phono, 2 tape head, 1 tape amp, 1 mic, 1 tuner; weight, 34.2 lbs. Dimensions, 16½" wide, 5 11/16" high, 12 11/16" deep. Pioneer Electronic Corp., 5 Otowacho, 6-chome, Bunkyo-ku, Tokyo, Japan.

1. SM-C 800, 90-w professional amp

RAVENSWOOD

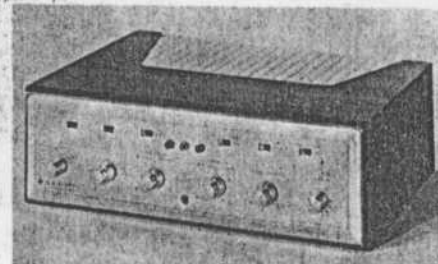
• **Model COP-700 Dual-30 Integrated Amplifier.** A complete control center for the home system, combined with a dual-30-watt power amplifier with adequate inputs and control facilities for the finest installations. Physical configuration of the unit makes it possible to mount in a variety of positions.

Specifications: Tube complement (2) ECC83, (2) ECC81, (1) ECC82, (2) 7199, (4) 7189, (6) silicon rectifiers; Freq. resp. 20 to 30,000 cps ± 1 db; IHFM music power output, 30 watts per channel; harmonic distortion, 0.8% at rated output; IM distortion, 1.2%; hum and noise, 75 db below 1 watt; output impedances, 4, 8, 16 ohms; dimensions: 13½" wide, 11" high, 9" deep. Price, \$169.95. RAVENSWOOD, Edgewood & McGuekian Sts., Annapolis, Md.

1. CCP-600 20/20-w int amp \$139.95

H. H. SCOTT

• **299-C Complete Stereo Amplifier.** Features include: rugged 80-watt output stage assuring low-distortion reproduction of even the lowest frequencies; special signal lights make it easy for any number of the family to operate the system; stereo selector switch for choosing stereo or monophonic program sources; separate scratch and rumble filters; front panel stereo headphone output; and "derived" center-channel level control.

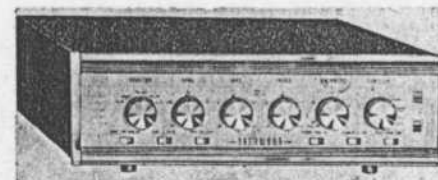


Specifications: Tube complement 11 tubes; freq. resp. 20 to 20k cps ± 1 db; power bandwidth, 19 to 25k cps; IHFM music power output, 40 watts per channel; power output, rms, 36 watts per channel; harmonic distortion, 0.8% from 20 to 20k cps; IM distortion, 0.5%; hum and noise, 80 db below 1 watt output; sensitivity, input for rated output—phono, 3 mv, tuner, 0.5 volts; damping factor 16; output impedance, 4, 8, 16 ohms; inputs—5 phono, 1 tape head, 1 tape amp, 1 aux, 1 Mic; weight, 30 lbs. Dimensions: 15½" wide, 5¼" high, 13¼" deep. Price, \$229.95. Accessories: wood and metal cases, \$13.75. H. H. Scott, Inc., 111 Powdermill Road, Maynard, Mass.

1. 222-C, 48-watt stereo amp. \$169.95
2. 296, 100-watt 299.95

SHERWOOD

• **S-5500II 64-Watt Amplifier and Preamplifier.** The S-5500II features all the important controls and facilities of the S-5000II and was designed to offer full power requirements for most home music systems at economical cost. Controls include friction-locked bass and treble controls, scratch and rumble filters, stereo normal/reverse switch, phase-invert switch and tape-monitor switch. A total of 8 high-level and 4 low-level inputs are provided for maximum flexibility.



Specifications: Tube/transistor complement (4) 7868, (5) 12AX7, (4) sil. rect. Freq. resp. 20 to 20k cps ± ½ db at 30 watts output; IHFM music power output 32 watts per channel power output, rms, 30 watts per channel; harmonic distortion, ½% at 30 watts from 26 to 20k cps; IM distortion, 1½% at 32 watts; hum and noise, 75 db below 1 watt output; sensitivity, input for rated output—phono, 1.2 mv, tuner, ¼ volts; damping factor 5; output impedances, 4, 8, 16 ohms; input—2 phono, 2 tape head, 2 tape amp, 2 aux, 2 (other); weight, 27 lbs. Dimensions 14" wide, 4" high, 13½" deep. Price, \$164.50. Accessories: case, \$7.50. Sherwood Electronic Labs, Inc., 4300 N. California Ave., Chicago 18, Ill.

1. S-5000II, 80-watt amp-preamp ... \$199.50

INTEGRATED AMPLIFIER KITS

EICO

• **ST-70 Stereo Amplifier Kit.** The ST-70 is a complete stereophonic control center plus two separate 35-watt amplifiers all on one chassis. Mode switches on front panels enable you to play either amplifier alone or use both amplifiers together for normal stereo, or for reverse stereo. It is also possible to use both amplifiers together for enhanced mono listening through two speaker systems.

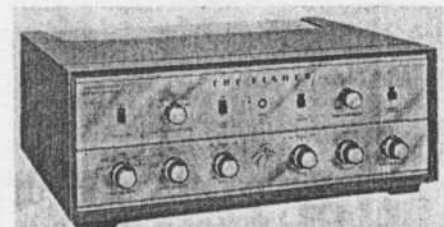
Specifications: Tube complement (3) ECC83/12AX7, (2) 12DW7, (2) 6SN7GTB, (4) 7591, (1) GZ33. Freq. Resp. 10 to 50k cps ± 0.5 db at 2 watts output; power bandwidth, 15 to 90,000 cps; IHFM music power output, 37.5 watts per channel; power output, rms, 35 watts per channel; harmonic distortion 1% at 30 watts from 25 to 20k cps; IM distortion, 1% at 70 watts; hum and noise 63 db below 1 watt output; sensitivity, input for rated output—phono 4 mv, tuner, 0.5 volts; damping factor 11; output impedance, 4, 8, 16 ohms; inputs—4 phono, 2 tape head, 2 tape amp, 4 aux. Dimensions, 15½" wide, 5½" high 15" deep. Price \$149.95 assembled, \$99.95 kit, metal cover included. Electronic Instrument Co., Inc., 330 Northern Blvd., L.I.C., N. Y.

1. ST-40 watt integrated stereo amp kit \$79.95
2. HF-81, 28-watt integrated stereo amp kit 69.95

FISHER

• **Model KX-200 StrataKit 80-watt Integrated Stereo Amplifier.** An easy building, high-quality, integrated stereo amplifier kit. The instructions are explicit and "marbled" with humor.

Specifications: Tube complement 10 tubes, 4 silicon diodes; Freq. resp. 20 to 20,000 cps ± 1 db at 1 watt output; power bandwidth, 16 to 28,000 cps; IHFM music power output, 40 watts per channel; power output,



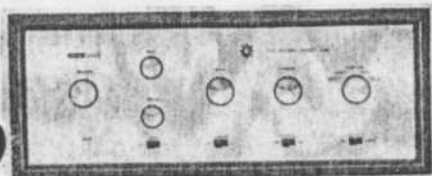
rms, 35 watts per channel; harmonic distortion, 0.4% at 35 rms watts at 1 k cps; IM distortion, 0.8% at 35 rms watts per channel; hum and noise, 90 db below full power output; sensitivity, input for rated output—phono, 3.5 mv, tuner, .35 volts; damping factor 10; output impedances, 4, 8, 16 ohms; inputs—2 phono, 2 tape head, 2 tape amp, 2 aux, 2 tuners; weight, 26 lbs. Dimensions, 15½" wide, 4 13/16" high, 12½" deep. Price, \$169.50 kit. Accessories: Cabinet 10-U, \$24.95, MC-2, \$15.95. Fisher Radio Corp., 21-21 44th Drive, L.I.C., N. Y.

1. KX-100, 50-w integrated amplifier StrataKit \$129.50

HARMAN-KARDON

• **Model A30K 30-watt Stereo Amplifier Kit.** An unusually well designed kit, the A30K features the most comprehensive and well thought out construction procedure. The instrument itself is equally well designed in terms of performance.

Specifications: Tube complement, (4) 7408, (4) 12AX7, (1) 12AU7; freq. resp. 15 to 70,000 cps ± 1 db at 1 watt output; power bandwidth, 30 to 20,000 cps; IHFM music power output, 15 watts per channel; power output, rms, 12 watts per channel; harmonic distortion, 0.5% at 5 watts from 20 to 20,000 cps; IM distortion, 1% at 15 watts; hum and noise, 80 db below rated output; sensitivity,



input for rated output—phono, 2.0 mv, tuner, 0.25 volts; damping factor, 8+; output impedances, 8 and 16 ohms; inputs 4 phono, 2 tape head, 2 tape amp, 2 aux.; weight, 25 lbs; dimensions, 15 1/4" wide, 5 7/16" high, 11 1/2" deep. Price, \$79.95 in kit form. Accessories, WW50 walnut enclosure, \$29.95; CX50 case, \$12.95. Harman-Kardon, Inc., Plainview, N. Y.

1. A50K, 50-watt ster amp kit\$119.95

HEATH

● **Model AA-21 Transistor Stereo Amplifier Kit.** Featuring 28 transistors and 10 diodes, the Heathkit AA-21 provides transformerless output circuit and multiple feedback loops. All controls are front-panel mounted for operating convenience. A hinged lower front panel conceals the tape-monitor input switch, speaker phase-reversal switch, loudness switch, and all input level controls. The lower right section of the front panel is a unique on/off switch, touch to turn on, touch to turn off. All input and output connections are conveniently located on the rear chassis panel. Circuit safety is assured through the use of five new, fast-acting bimetal circuit breakers—no fuses to replace. Kit assembly is fast and simple through the use of five circuit boards which eliminate most of the conventional point-to-point wiring. Preamplifier circuits are "capsulated" in six epoxy-covered modules containing seventy resistors and capacitors, all factory wired and sealed, ready for installation on the preamp circuit board.



Specifications: Transistor complement, (28), diodes (10); freq. resp. 20 to 20,000 cps ± 1 db at 70 watts output; power bandwidth, 8 to 40,000 cps; IHFM music power output, 50 watts per channel; power output, rms, 35 watts per channel; harmonic distortion, less than 2% at 70 watts from 20 to 20,000 cps; IM distortion, less than 1.5% at 70 watts; hum and noise, 60 db below 1 watt output; sensitivity, input for rated output—phono, 2.5 mv, tuner, 0.3 volts; damping factor, unity; output impedances, 4, 8, and 16 ohms; inputs—mag phono, tape head, tape amp, aux, tuner; weight, 25 lbs., dimensions, 15 1/4" wide, 5" high, 13 1/2" deep. Price, \$134.95 kit. Heath Company, Benton Harbor, Mich.

1. AA-100, 50-w ster amp kit\$ 84.95
2. AA-151, 28-w ster amp kit 59.95

KNIGHT-KIT

● **KG-60 Transistorized 50-watt Amplifier Kit.** Featuring the exclusive Knight-Kit thermal feedback circuit, the KG-60 offers high power at low distortion with all the advantages of a transistor amplifier.

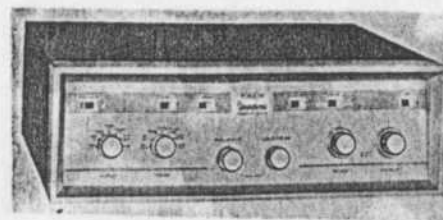
Specifications: Transistor complement, (20), diodes (2), rectifier diodes, (4); freq. resp., 20 to 20,000 cps ± 1 db at 50 watts output; power bandwidth, 20 to 20,000 cps; IHFM



music power output, 25 watts per channel; power output, rms, 18 watts per channel; harmonic distortion, 1% at 25 watts at 1000 cps; IM distortion, 2% at 15 watts; hum and noise, 90 db below rated output; sensitivity, input for rated output—phono, 2.5 mv, tuner, 0.5 volts; output impedance, 4 ohms; inputs—phono, tape head, ceramic, aux; weight, 8 lbs; dimensions, 11" wide, 2 3/4" high, 9 1/4" deep. Price, \$89.95 kit. Accessories—metal case, \$4.95, wood case, \$9.95. Allied Radio Corporation, 100 N. Western Ave., Chicago 80, Ill.

PACO

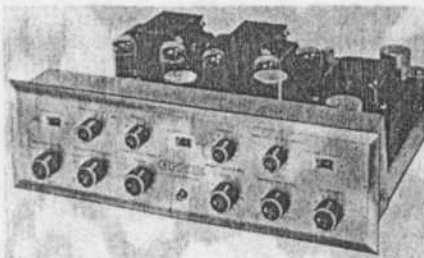
● **SA-40 Integrated Stereo Amplifier Kit.** The Paco SA-40 is a 40-watt (20 per channel) stereo integrated amplifier, with a low price and distortion. Encompassing the latest innovations, it is suitable for many future developments as well as the existing. In addition, it is flexible enough to accommodate most existing needs.



Specifications: Tube complement (9) tubes, (2) silicon rect; freq: resp. 30 to 90,000 cps ± 1 db at 1 watt output; power bandwidth, 50 to 15,000 cps; IHFM music power output, 25 watts per channel; power output, rms, 20 watts per channel; harmonic distortion, 2% at 20 watts from 50 to 15,000 cps; IM distortion, 2% at 20 watts; hum and noise, 57 db below 1 watt output; sensitivity, input for rated output—phono, 5 mv, tuner, 0.75 volts; damping factor 22; output impedance, 4, 8, 16, 32 ohms; inputs—phono, 47k Ω , tape head, 47k Ω , tape amp, 270k Ω , aux, 270k Ω ; weight, 25 lbs. Dimensions: 15 1/4" wide, 5 1/2" high, 11 1/4" deep. Price, \$129.95 assembled, \$79.95 kit. Paco Electronics Company, Inc., 70-31 84th St., Glendale, L. I., N. Y.

H. H. SCOTT

● **LK-72 Complete Stereo Amplifier Kit.** Typical assembly time is approximately 15 to 20 hours. Full-size full-color instruction manual. Front panel "derived" center channel level control, switching facilities that enable simultaneous connection of both a stereo tape deck and stereo cartridge, and a full 40-watt-per-channel (IHFM) over the entire audio range make this amplifier kit an outstanding value.



Specifications: Tube complement 11 tubes; Freq. resp. 20 to 20k cps ± 1 db at 10 watts output; power bandwidth, 19 to 25k cps; IHFM music power output, 40 watts per channel; power output, rms, 36 watts per channel; harmonic distortion 0.8% from 20 to 20k cps; IM distortion 0.5% at 10 watts; hum and noise, 80 db below 1 watt output; sensitivity, input for rated output—phono, 3 mv, tuner, 0.5 volts; damping factor 16; output impedances, 4, 8, 16 ohms; inputs—5 phono, 1 tape head, 1 tape amp, 1 aux, 1 tuner; weight 30 lbs. Dimensions: 15 1/2" wide, 5 1/4" high, 13 1/4" deep. Price, \$159.95. Accessories: Cases in wood or metal from \$13.95. H. H. Scott, Inc., 111 Powdermill Road, Maynard, Mass.

1. LK-48, 48-watt complete stereo amp. \$124.95

REALISTIC

● **TA-208 80-Watt Transistor Stereo Amplifier.** An advanced design transistor amplifier with several unique features. All basic elements are mounted on the front part of the circuit board while the output section is on the rear to avoid cross coupling. Special attention has been paid to ventilation and air flow.

Specifications: Transistor complement (18) transistors, Freq. Resp. 10 to 20k cps ± 1 db at 80 watts output; IHFM music power output, 50 watts per channel (4 ohms); power output, rms 40 watts per channel (4 ohms); harmonic distortion, 0.4% at 25 watts (8 ohms) from 20 to 2k cps, less than 3% from 2k to 20k at 25 watts; IM distortion 1% at 25 watts; hum and noise, 50 db below 1 watt output; sensitivity, input for rated output—phono, 2 mv, tuner, 0.25 volts; damping factor 40 (8 ohms); output impedance matches any spkr 2 ohms or greater, inputs 4 phono, 4 tape head, 2 aux, 2 tuners; weight, 28 lbs. Dimensions, 15 1/2" wide, 5 3/4" high, 12 1/2" deep. Price, \$189.95 assembled, \$139.93 kit. Radio Shack Co., 730 Commonwealth Ave., Boston 17, Mass.

TRANSIS-TRONICS

● **S-15 Stereo Amplifier.** The TEC all-transistor stereo amplifier, S-15, is claimed to be the first medium power hi-fi amplifier-preamp ever produced. Features output transformerless design. Unit is free from heat, hum, and microphonics. Also operates on 12-28 d.c. from battery.



Specifications: Transistor complement (22) transistors, (7) diodes; freq. resp. 20 to 20,000 cps ± 1 db at 3 watts output; IHFM music power output, 20 watts per channel; harmonic distortion, 0.5% at 20 watts at 1000 cps; IM distortion, 0.9% at 20 watts; hum and noise, 85 db below 1 watt output; sensitivity, input for rated output—phono, 3 mv, tuner, 0.14 volts; damping factor 32; output impedances, 4 ohms; inputs—1 phono, 1 tape amp, 2 aux, 1 tuner; weight, 9 lbs. Dimensions: 10 1/4" wide, 3" high, 8 1/2" deep. Price, \$139.50. Transis-Tronics, Inc., 1601 Olympic Blvd., Santa Monica, Calif.

BASIC TUNERS

BOGEN

● **TP250 FM-Stereo Tuner.** From the design simplicity of the "Simple-Scanner" dial to tuner features such as the "Stereo-Minder" indicator, quick-acting electronic tuning eye, and tape recording filter, the TP250 compares well with more costly tuners.

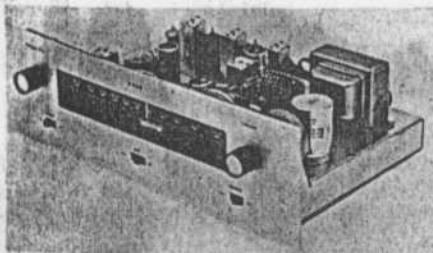


Specifications: FM Tube/transistor complement 10 plus 3 crystal diodes; type of

front end grounded grid; no. of i.f. stages 3; type of detector ratio detector; type of tuning indicator electronic eye; output signal 0.75 volts; no. of outputs 2; controls mode, tuning; switches afo, power; freq. resp. ± 5 db from 30 to 15,000 cps; signal-to-noise ratio 60 db; IHFM volume sensitivity 0.5 μ v; capture ratio 4 db; selectivity 40 db; IHFM usable sensitivity 2.5 μ v; AM suppression 50 db; harmonic distortion (100% mod.) 0.5%; stereo separation 28 db; type of stereo circuit matrix; type of a.f.c. circuit reactance tube; drift 20 kc; dimensions: 12 $\frac{1}{2}$ " wide, 4 $\frac{1}{4}$ " high, 11" deep; weight, 16 lbs. Other features "Stereo-Minder" indicator, tape recording filter, age, a.f.c. Price \$159.95. Accessories: EN18 metal enclosure, \$11.95; WE-8 walnut cabinet \$26.95. Bogen Commun. Div., Lear Siegler, Inc., Paramus, N. J.

ERIC

• Model 3457 MX Deluxe FM Multiplex Tuner. This Eric model features built-in multiplex circuitry, with front-panel separation control. It employs a new G.E. Compactron tube for more efficient chassis construction.



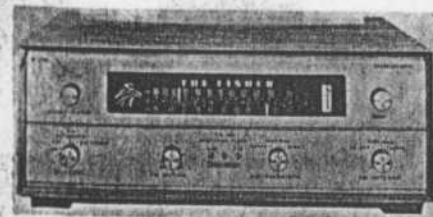
Specifications: FM: Tube complement (1) 6CL8, (1) 12AV7, (1) 6BZ6, (1) 6AU6, (2) 6EW6, (1) 6AL5, (1) 6D10, (1) EMS4; type of front end, tuned r.f. stage; type of detector Foster-Seely; type of tuning indicator electron tube; no. of output 3—FM, L, R; controls, tuning, separation; switches, mode, a.v.c. defeat, power; freq. resp. ± 1 db from 50 to 15,000 cps; sensitivity 1 μ v for 20 db quieting; dimensions: 13 $\frac{1}{4}$ " wide, 4 $\frac{5}{16}$ " high, 8 $\frac{1}{4}$ " deep; weight, 8 lbs. Price \$119.95.

1. 3157 MX—FM/MX trn \$149.95
2. 3357 FM trn 72.95
3. MX 600D MX Adapter 59.95

FISHER

• Model R-200 FM-AM Multiplex Tuner. High quality FM-Stereo and AM tuners on one compact chassis. The quality of both sections is appropriate for the best music listening.

Specifications: FM: Tube complement, 15 tubes, 15 diodes, 1 selenium rectifier; type of front end neutrode; no. of i.f. stages 5; type of detector ratio; no. of audio stages 2 each channel; type of tuning indicator meter; output signal 2 volts rated output; no. of outputs 2 each channel; controls, front panel; tuning, muting; Rear: 2 level; switches, front panel: stereo filter, selector, AM bandwidth, FM antenna; freq. resp. ± 1 db from 20 to 15,000 cps; signal-to-noise ratio 70 db; IHFM volume sensitivity below noise level; capture ratio 1.8 db; selectivity 65 db; IHFM usable sensitivity 1.6 μ v; AM suppression 60 db; harmonic distortion (100% mod.) 0.4%; stereo separation 35 db; type of stereo circuit time division switching; type



of a.f.c. circuit none; drift less than 10 kc; dimensions 15 $\frac{1}{4}$ " wide, 4 $\frac{13}{16}$ " high, 12 $\frac{3}{4}$ " deep; weight 20 lbs. Other features: 3 Jewel indicators for Stereo Beacon, AM, and FM, 10-ke filter on AM; flywheel tuning. Accessories: Cabinets—wood (10-U) \$24.95; metal (MC-2) \$15.95.

AM: Tube complement see above; type of

circuit superhet with tuned r.f. and 2 i.f. stages; 3-gang tuning capacitor; type of detector diode; IHFM usable sensitivity 5 μ v; IHFM volume sensitivity below noise level; freq. resp. 0-3 db from 50 to 7500 cps; harm dist. 1%. Other features: 3-position AM bandwidth selector, Jewel indicator for AM, 10-ke filter, loopstick antenna. Price \$299.50. Fisher Radio Corp., 21-21 44th Drive, L. I. C., N. Y.

1. MPX-100, universal MPX adapter ... \$119.50
2. FM-1000, network relay FM-stereo tuner 429.50
3. FM 200B, wide-band FM-stereo tuner 299.50
4. FM 100B, wide-band FM-stereo tuner 249.50
5. FM 50B, wide-band FM-stereo tuner.. 199.50

GROMMES

• Model 101BM. Stereo FM tuner with "Stereo Sentry" that activates the bar tuning indicator when stereo is broadcast. Super sensitive front end has 3-gang capacitor, cascode r.f. and silver plated coils. I.f. has wide-band high gain 6HS6 tubes, tube and diode limiting and balanced diode detector. Cool silicon power supply and advanced compensation eliminate drift so that no a.f.c. is required. Multiplex section has trouble-free balanced-diode bridge switching circuit.



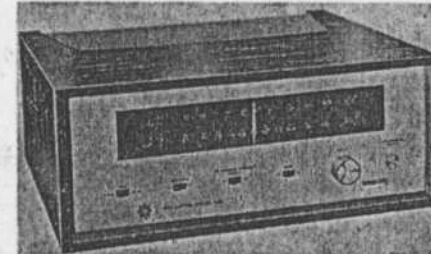
Specifications: FM: Tube complement (2) 6DT8, (3) 6HS6, 6FG6, 6EU7, 12AU7, (8) diodes, silicon rectifier; type of front end cascode—3 gang capacitor; no. of i.f. stages 3; type of detector balanced diode; no. of audio stages 0; type of tuning indicator eye tube; output signal, 1 volt; no. of outputs L and R (2); controls tuning and power off, stereo-mono (2); freq. resp. ± 5 db from 20 to 20,000 cps; signal-to-noise ratio 60 db; capture ratio 6 db; selectivity 250kc; IHFM usable sensitivity 2 μ v; AM suppression 60 db; harmonic distortion (100% mod.) 0.5%; stereo separation 30 db; type of stereo circuit bal. diode bridge switching; type of a.f.c. circuit none; drift 10 kc; dimensions 14" wide, 4 $\frac{1}{2}$ " high, 9" deep, weight 17 lbs. Price \$139.95; accessories, cover, \$7.50. Precision Electronics, Inc., 9101 King St., Franklin Park, Ill.

1. 102DM, FM-AM with multiplex ster. \$159.95
2. E104M, FM-AM with multiplex ster.. 129.95

HARMAN-KARDON

• Model T300X, AM-FM-FM Stereo Tuner. A complete AM-FM tuner with built-in facilities for receiving FM stereo. Although modest in price, it certainly is not modest in performance.

Specifications: FM: tube complement (1) EZ81, (1) 6AJ8, (1) 6A08, (2) ECF80, (1) 6EQ7, (1) 6BN6, (1) 12AU7, (1) 6C4; type of front end, tuned grounded-grid r.f.; no. of i.f. stages, 4; type of detector, Foster-Seely; output signal, 1.75 volts; no. of outputs, 2; controls, tuning; switches, a.f.c.



AM/FM, FM/FM Stereo, power on/off, noise filter; freq. resp. ± 1 db from 10 to 35,000 cps; signal-to-noise ratio, 65 db; capture ratio, 5 db; selectivity, 240 kc bandwidth 6 db down; IHFM usable sensitivity 32 μ v; harmonic distortion (100% mod.) 0.1%; stereo

separation, 30+ db; type of stereo circuit, switching; type of a.f.c. circuit reactance tube; drift ± 20 kc; dimensions, 15" wide, 6" high, 11 $\frac{1}{2}$ " deep; weight 25 lbs.

AM section: type of circuit, low-noise, high-gain r.f. pentode, 3-gang tuning capacitor; type of detector, high-perveance diode; no. of i.f. stages, 2; IHFM usable sensitivity, 25 μ v; freq. resp. ± 1 db from 20 to 5000 cps; harm dist. less than 1%. Price, \$149.95. Harman-Kardon, Inc., Plainview, N. Y.

1. F500X, FM-stereo tuner \$169.90
2. F10, FM (mono) tuner 69.95

KARG

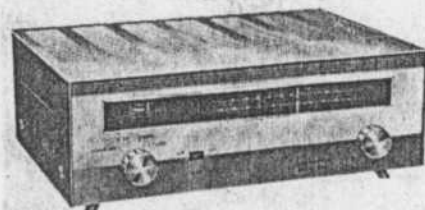
• Stereo FM tuner, Model FMX-9. Featuring a wideband i.f. and discriminator, the Karg FMX-9 incorporates advanced multiplex circuitry. Separate jacks are provided for mono and FM-stereo output. The 9-in. slide rule dial is calibrated each megacycle.

Specifications: FM: Tube 9 tubes; type of front end variable cap., r.f. amp., osc-mix, no. of i.f. stages 3; type of detector Foster-Seely discriminator; no. of audio stages 1/channel; type of tuning indicator eye tube; output signal 1.5 volts; no. of outputs 3: A and B mono; controls tuning, volume (combined w. power switch); switches 1. Mode (Stereo, mono, standby). 2. Subchannel filter. 3. AFC; freq. resp. ± 1 db from 40 to 15,000 cps; signal-to-noise ratio 48 db; IHFM volume sensitivity 2.2 μ v; capture ratio 3 db; IHFM usable sensitivity 2.2 μ v; AM suppression 32 db; harmonic distortion (100% mod.) 1%; stereo separation 33 db; type of stereo circuit time division; drift 10 kc; dimensions: 15 $\frac{1}{2}$ " wide, 5" high, 5 $\frac{1}{2}$ " deep; weight, 11 lbs. Price, \$199.95. Karg Laboratories, 162 Ely Ave., S. Norwalk, Conn.

1. CT-3, mono FM tuner \$119.95
2. MX-3, FM-stereo adapter 99.30
3. MX-5, FM-stereo adapter 39.95
4. MX-2, FM-stereo adapter, plug-in for Karg tuners 44.50
5. XT-1A, crystal-controlled 12 channel tuner 229.95

LAFAYETTE

• LT-81 FM-Stereo Tuner. The LT-81 is a moderately priced FM tuner with built-in multiplex provisions. The performance, however, features sensitivity and low distortion. It integrates well with many of the Lafayette systems, as well as with others.



Specifications: FM: Tube complement (8) tubes, (4) diodes; type of front end grounded grid; no. of i.f. stages 4; type of detector ratio; no. of audio stages 1; type of tuning indicator meter; output signal 1 volt; no. of outputs 2; controls tuning; switches selector, noise filter, a.f.c., power; freq. resp. ± 2 db from 20 to 20,000 cps; IHFM usable sensitivity 6 μ v; harmonic distortion (100% mod.) 1%; stereo separation 35 db; dimensions: 13 $\frac{1}{2}$ " wide, 5 $\frac{3}{4}$ " high, 9 $\frac{1}{4}$ " deep; weight, 12 lbs. Other features 3-gang tuning capacitor. Price, \$76.50. Lafayette Radio Electronics, 111 Jericho Turnpike, Syosset, L. I. N. Y.

LEAK

• MK11 FM-Stereo Tuner. An ideal companion for the "Point One" stereo preamplifier.

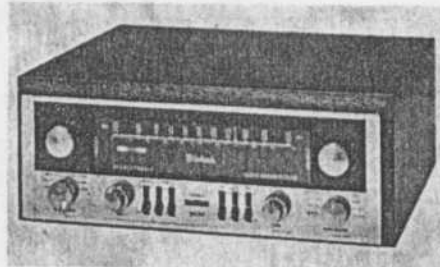
Specifications: FM: Tube complement (2) ECF80, ECC84, ECC85, EF80, EM84, EZ80 (2) OA79; no. of i.f. stages 2; type of detector Foster Seely; type of tuning indicator maximum closure; output signal 1 volt; no. of outputs 2; controls tune, volume, on-off; switches afo, local-distance; IHFM usable sensitivity 2 μ v; drift 15 kc; dimensions: 10 $\frac{1}{2}$ " wide, 3 $\frac{3}{4}$ " high, 7 $\frac{3}{4}$ " deep; weight, 11 lbs. Other features: cathode follower—sensitivity switch for locations of high signal strength. Accessories: Supplied with color inserts to



match room decor. Price \$149.00 Ercona Corp., 16 W. 46th St., New York, N. Y.

McINTOSH

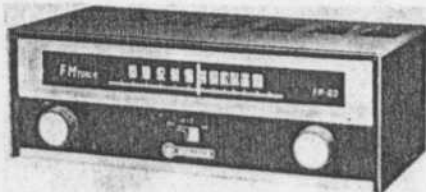
• **MX110 Tuner-Preamp Stereo Combination.** The MX110 combines in one convenient instrument an FM tuner, a multiplex decoder, and a stereo preamplifier. You mount only this one unit, connect it to your power amplifier and speakers, and listen. The preamp is similar to the C11, while the tuner has increased sensitivity and stability so that a.f.c. is no longer needed. The MX indicator lights up whenever the tuner is centered on an FM stereo broadcast.



Specifications: FM: Tube complement (1) 6BN4A, (2) 12AT7, (1) 6AB4, (3) 6AU6, (1) 6CS6, (3) 12AX7, (3) 6U8, (1) EM84A; (16) semiconductors; type of front end r.f. stage; no. of i.f. stages 4; type of detector, discriminator; type of tuning indicator electron tube; output signal 3 volts; no. of outputs 2 each channel, L+R, tape; controls tuning, selector, mode, dual concentric bass and treble, balance; switches muting, scratch, rumble, loudness, tape mon, reverse; freq. resp. ± 1 db from 20 to 20,000 cps; sensitivity 2.5 μ v; harmonic distortion (100% mod.) less than 0.6%; drift less than 25 kc; Freq. resp. 20 to 20,000 cps ± 0.5 db; output, 3 volts per channel; IM distortion 0.2% at 3 volts; hum and noise, 80 db below 3-volt output on high-level inputs; sensitivity, input for rated output — phono, 3 mv, aux. 0.3 volts; inputs—4 phono, 2 tape head, 2 tape amp, 2 aux; dimensions, 15 $\frac{1}{8}$ " wide, 5 $\frac{1}{4}$ " high, 13" deep; weight, 20 lbs. Price, \$347.50. Accessories, cabinet, \$25.00. McIntosh Laboratory, Inc., 2 Chambers St., Binghamton, N. Y.

MONARCH

• **Model FM-100 Budget FM Tuner.** An economically priced FM tuner with high sensitivity, automatic frequency control, attractive solid brass panel, and slide rule dial. Compact, drift-free, and distortionless, the FM-100 is incomparable in its price class.

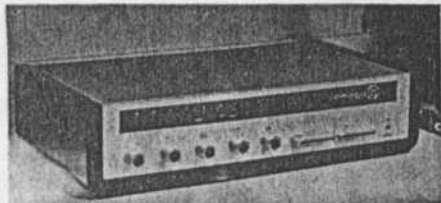


Specifications: FM: Tube complement, (2) 6AQ8, (3) 6BA6, (1) 6AL5, (1) 6X4; output signal 0.5 volts; no. of outputs 1; controls power, tuning; switches a.v.c. on/off; sensitivity 2.5 μ v for 20 db quieting; harmonic distortion (100% mod.) 1%; dimensions: 11 $\frac{3}{8}$ " wide, 3 9/16" high, 5 $\frac{3}{8}$ " deep. Price, \$39.95. Monarch Electronics International, Inc., North Hollywood, California.

1. FM-100X FM-MPX trn \$74.95

OMEGA

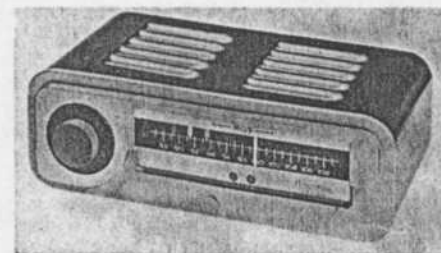
• **Model 1650 FM/FM-Stereo Tuner.** The latest addition to the Omega line of transistorized equipment, the Model 1650 FM-stereo tuner is designed to complement the Model 1600 amplifier. Incorporating a new type of multiplex circuitry, the 1650 is capable of receiving relatively weak stereo signals because of its sensitivity and wide-band design.



Specifications: FM: Transistor complement 28 transistors; type of front end MADT transistor; no. of i.f. stages 5; type of detector wide-band ratio; type of tuning indicator balanced eye; output signal 0.8 volts; no. of outputs 5; controls on-off, a.f.c., quieting threshold, output, level, tuning, local-distant, stereo noise filter; freq. resp. ± 1 db from 30 to 15 k cps; capture ratio 3 db; IHFM usable sensitivity 1.8 μ v; harmonic distortion (100% mod.) 0.4%; stereo separation 33 db; type of stereo circuit switching; drift 15 kc; dimensions: 15 $\frac{1}{2}$ " wide, 3" high, 9" deep; weight, 10 $\frac{1}{2}$ lbs. Other features stereo broadcast indicator, built-in antenna. Price \$249.00. Omega Electronics Corp., 10017 North 10th St., Phoenix, Arizona.

QUAD

• **Compact FM Tuner.** The Quad FM tuner is a compact unit designed to be used with Quad amplifiers. It is an attractive companion to the Quad 22 or II. Special features are a positive tuning indicator; drift-free temperature-compensated a.f.c. circuitry; low distortion; and high noise rejection.



Specifications: FM: Tube complement 6AL5; 12AX7; 6BJ6; 12AT7; 6BH6(2); 6AU6; type of front end variable capacitor; no. of i.f. stages 3; type of detector phase discriminator; type of tuning indicator 2 neon lights; output signal 100 mv; no. of outputs two; controls tuning; freq. resp. from 20 to 20k cps; IHFM volume sensitivity 100 μ v; usable sensitivity 3 μ v for 20 db of quieting; type of a.f.c. circuit temp. comp.; dimensions: 10 $\frac{1}{2}$ " wide, 3 $\frac{1}{2}$ " high, 6" deep; weight, 6 lbs. Price, \$125.00. Lectronics of City Line Center, 7644 City Line Ave., Philadelphia 31, Pa. Pa.

RAVENSWOOD

• **TX-700 FM Stereo Tuner.** The TX-700 tuner is designed to provide high-quality FM stereo signals to any control amplifier and power amplifiers and speakers or to any integrated amplifier with complete assurance of distortion-free and drift-free performance. Similar in form is the TAX-700, which provides the same facilities as the TX-700 and in addition, an AM tuner of exceptional performance.

Specifications: FM: Tube/transistor complement (1) AF114, (1) AF115, (4) AF116; type of front end, autodyne; no. of i.f. stages 4; no. of audio stages 1; type of tuning indicator meter; output signal 1 volt; IHFM usable sensitivity 2.3 μ v; stereo separation 29 db; dimensions: 13 $\frac{1}{2}$ " wide, 11" high, 4" deep. Price, \$159.95. Also available with AM, Model TXA 700 \$189.95. AM: Tube complement (1) ECH81, (1) 6BA6, (1) 6AU6; type

of circuit superhet; 2-gang tuning capacitor; type of detector, diode; type of tuning indicator meter.

1. TX600 FM ster trn tuning eye \$129.95
2. TAX600 AM-FM ster trn, tuning eye 169.95
3. TCCX700 FM ster trn/preamp 249.95
4. TCCAXP700 AM-FM ster trn/preamp 279.95

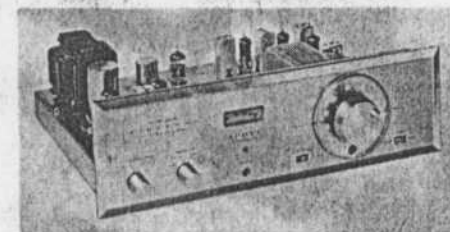
REALISTIC

• **AM-FM/MLPX Stereo Tuner, TM-8.** TM-8 AM-FM-MPX Tuner, an all-in-one AM-FM tuner with built-in multiplex for FM stereo. Meter tuning is utilized for both AM and FM.

Specifications: FM: Tube complement (1) 6X4(5) 6AQ8, (1) 6BA6, (3) 6AU6; type of front end grounded grid, t.r.f.; no. of i.f. stages 2; type of detector ratio; no. of audio stages 2; type of tuning indicator meter; output signal 2 volts; no. of outputs 2; controls tuning, dimension; switches on-off a.f.c. on-off, noise filter on-off, junction selector; freq. resp. ± 2 db from 30 to 15 k cps; signal-to-noise ratio 50 db; IHFM usable sensitivity 2.5 μ v; AM suppression 25 db; harmonic distortion (100% mod.) 0.7%; stereo separation 27 db; type of stereo circuit carrier injection; type of a.f.c. circuit reactance tube; dimensions: 14 $\frac{1}{2}$ " wide, 5" high, 10" deep; weight 20 lbs. AM: Tube complement (2) 6BA6, (1) 6BE6, (1) OA81; type of circuit superheterodyne; 3-gang tuning capacitor; type of detector diode— $\frac{1}{2}$ wave; no. of i.f. stages 1; type of tuning indicator meter; IHFM usable sensitivity 70 μ v; freq. resp. ± 1 db from 20 to 7k cps. Other features t.r.f. stage. Price \$99.95. Radio Shack, 730 Commonwealth Ave., Boston 17, Mass.

H. H. SCOTT

• **\$50-B Wideband FM Multiplex Stereo Tuner.** Built-in multiplex circuitry receives FM-stereo broadcasts without an adaptor. The 350B also receives regular monophonic FM broadcasts. Scott's new Sonic Monitor tells you automatically when stereo is on the air. Simply turn the switch and tune to the tone. Wide-band design assures IHFM sensitivity of 2.2 μ v and stereo separation that matches FCC transmission specifications. Exclusive Scott filtering circuits permit good results with any tape recorder.



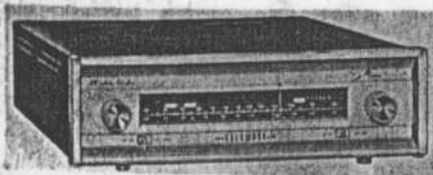
Specifications: FM: Tube complement 9 tubes, 11 diodes, selenium rectifier; type of front end cascade; no. i.f. stages 3; type of detector ratio; no. of audio stages 3; type of tuning indicator meter; output signal 1.5 volts; no. of outputs 2 sets; controls vernier tuning, individual level controls (rear panel); switches "Sonic Monitor" a.g.c., stereo noise filter; freq. resp. ± 1 db from 20 to 20 k cps; signal-to-noise ratio 60 db; capture ratio 6.0 db; selectivity 35 db; IHFM usable sensitivity 2.2 μ v; AM suppression 55 db; harmonic distortion (100% mod.) 0.8%; stereo separation 35 db; type of stereo circuit time switching; drift 0.02%; dimensions: 15 $\frac{1}{2}$ " side, 5 $\frac{1}{4}$ " high, 13 $\frac{1}{4}$ " deep; weight, 13 lbs. Other features: sub-channel noise filter, switchable a.g.c., front panel tape output, individual level controls for each channel. Price, \$219.95. H. H. Scott, Inc., 111 Powdermill Road, Maynard, Mass.

1. 333 AM/FM multiplex stereo tuner
2. 314 FM mono tuner

SHERWOOD

• **S-2100 FM-MPX-AM Stereo Tuner.** The Model S-2100 enables you to enjoy modern stereocasts via FM multiplex in your area.

Front-panel controls and complete FM-multiplex stereo circuitry are furnished to provide low-distortion stereo reception. The S-2100/MX also features the reception of AM broadcasts with the excellent fidelity afforded by the 15-kc wide "hi-fi" band pass. A sharply selective 5-kc pass-band is also selectable on the front panel for "pulling-in" weaker AM broadcasts. Stereo-MX programs are each identified on the S-2100 by the instant indication on Sherwood's new Stereo-lite.



Specifications: FM: tube complement 12 tubes, 7 diodes, rectifier; type of front end cascade r.f. amp; no. of i.f. stages 2; type of detector balanced; type of tuning indicator tuning eye; output signal 1.4 volts; controls tuning, selector; switches off-on, a.f.c.; freq. resp. ± 0.5 db from 20 to 20,000 cps; signal-to-noise ratio 60 db; selectivity 220 kc at -3 db; IHFM usable sensitivity 1.8 μ v; harmonic distortion (100% mod.) $\frac{1}{2}$ %; drift 25 kc; dimensions: 14" wide, 4" high, 12 $\frac{1}{2}$ " deep; weight, 24 lbs. AM: Type of circuit superhet; type of detector diode; no. of i.f. stages 1; type of tuning indicator tuning eye; usable sensitivity 2 μ v at 60% mod. for 0.5 v. out, 6 db S/N; freq. resp. (wide) - 6 db from 20 to 7500 cps. Price, \$199.50. Sherwood Electronic Labs, 4300 N. California Ave., Chicago 18, Ill.

TRANSIS-TRONICS

• **FM-15MX FM-Stereo Multiplex Tuner.** All-transistor FM multiplex tuner has advanced circuitry. Circuit is sensitive and has maximum stability of tuning.

Specifications: FM: Transistor complement (20) transistors, (9) diodes; no. of i.f. stages 4; type of detector discriminator; no. of audio stages 1; type of tuning indicator meter; out-



put signal 1 volt; no. of outputs 2 pair; controls tuning, muting level; switches a.f.c., muting, power, MX; freq. resp. ± 1 db from 20 to 20,000 cps; signal-to-noise ratio 66 db; IHFM volume sensitivity 0.9 μ v; capture ratio 5.1 db; IHFM usable sensitivity 3.5 μ v; stereo separation 30 db; type of stereo circuit switching; drift 15 kc; dimensions: 10 $\frac{1}{2}$ " wide, 3" high, 8 $\frac{1}{2}$ " deep; weight, 8 lbs. Other features exceptional bandwidth—270 kc, 6 db down. Price, \$199.50. Transis-Tronics, Inc., 1001 Olympic Blvd., Santa Monica, Calif.

BASIC TUNER KITS

DYNACO

• **FM-1 Tuner.** The basic FM-1 monotuner features etched circuit design for exact reproducibility, and a complete system for customer alignment without instruments. To the basic tuner may be added either the FMX-3 multiplex integrator or the FMA-2 10-watt

mono amplifier, which fits in the same space as the adapter providing maximum versatility from a single unit.

Specifications: FM: type of front end cathode coupled; no. of i.f. stages 4; type of detector balanced bridge; no. of audio stages 2; type of tuning indicator eye tube; output signal 2 volts; no. of outputs 2; controls volume tuning; switches on-off; freq. resp. 0.5 db from 10 to 40k cps; signal-to-noise ratio 70db; IHFM volume sensitivity infinite; capture ratio 5 db; selectivity 54 db; IHFM usable sensitivity 4 μ v; AM suppression 63 db; harmonic distortion (100% mod.) 0.5%; stereo



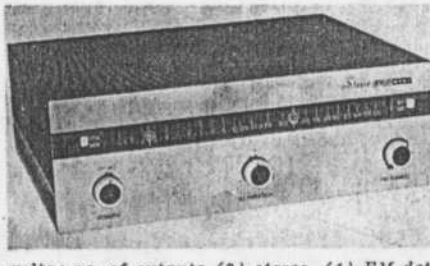
separation (with FMX-3) 30 db; type of stereo circuit envelope detection and doubler; type of a.f.c. circuit none; drift less than 2.5 kc; dimensions: 13" wide, 4" high 8" deep; weight 11 lbs. Other features: FMX-3 multiplex integrator fits inside chassis. Price (FM-1) \$119.95 assembled, \$79.95 kit. Accessories PM-4 panel mount kit \$4.95, PK-40 deluxe panel, knobs \$9.95. Dynaco, Inc. 3012 Powelton Ave., Philadelphia, Pa.

1. FMX-3 multiplex adapter kit\$ 29.95
2. FMA-2 mono amp kit 29.95

EICO

• **ST-97 FM-Stereo Tuner Kit.** New from EICO is this FM-Stereo tuner kit which features a sensitive tuner combined with the exclusive EICO multiplex circuitry.

Specifications: FM: Tube (1) ECC85, (1) 12AT7, (1) DM70, (5) 6AU6 (2) 12AU7, (1) EZ80 rect., (1) 6AL5, (1) 6D10, (6) signal diodes; type of front end r.f. amp and self oscillating mixer; no. of i.f. stages 4; types of detector ratio; no. of stereo demod. stages 10; type of tuning indicator combination tuning eye-station indicator; output signal 0.7



volts; no. of outputs (2) stereo, (1) FM det; controls on-off, tuning, separation; switches Stereo-Mono, afo-defeat; freq. resp. 1 db from 20 to 15,000 cps; signal-to-noise ratio - 55 db; capture ratio 3 db; IHFM usable sensitivity 3 μ v; harmonic distortion (100% mod.) 0.5%; stereo separation 30 db; type of stereo circuit matrix; drift 20 kc; dimension: 15 $\frac{1}{2}$ " wide, 5 $\frac{1}{2}$ " high, 11 $\frac{1}{2}$ " deep; weight 17 lbs. Other features: Stereo broadcast indicator (neon lamp) pre-wired and pre-aligned front end and i.f. strip in kit. Price, \$149.95 assembled; \$99.55 kit. Electronic Instrument Co., Inc., 3300 Northern Blvd., L.I.C., N. Y.

FISHER

• **KM-60 Wide-Band FM-Stereo Tuner Kit.** A tuner kit with built-in and preassembled multiplex circuitry, the KM-60 features "Stereo Beam" which indicates when a stereo program is being broadcast. The kit is easy to build and represents a substantial financial saving.

Specifications: FM: Tube/transistor complement 11 tubes, 12 diodes, 1 selenium rect. type of front end Golden Cascade; no. of i.f. stages 4; type of detector ratio; no. of audio stages 1 each channel; type of tuning indicator meter; output signal 2 volts; no. of out-

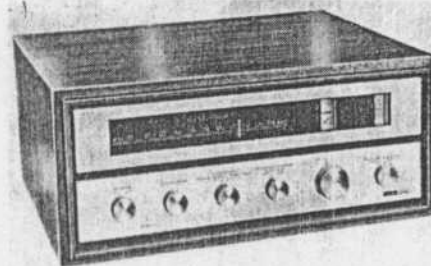


puts 2 each channel; controls on face panel; tuning; on rear: left and right level; switches Selector, Stereo, Filter, Power (Meter selector on top of chassis for alignment); freq. resp. ± 1 db from 20 to 15,000 cps; signal-to-noise ratio 70 db; IHFM volume sensitivity below noise level; capture ratio 2.5 db; selectivity 60 db; IHFM usable sensitivity 1.8 μ v; AM suppression 55 db; harmonic distortion (100% mod.) 0.5%; stereo separation 35 db; type of stereo circuit time-division switching; type of a.f.c. circuit none; drift 15 kc max; dimensions: 15 $\frac{1}{2}$ " wide, 4 13/16" high, 13" deep; weight, 18 lbs. Other features stereo beam indicator. Price, \$219.50 assembled; \$169.50 kit. Accessories Cabinets: Wood (10-U) 24.95; Metal-simulated leather \$15.95. Fisher Radio Corp., 21-21 44th Drive, L.I.C., N. Y.

HARMAN-KARDON

• **Citation III Professional FM-Stereo Tuner Kit.** Now with built-in multiplex, the Citation III remains the top of Harman-Kardon kit tuner line—a goodly amount. Famous for the role it played in opening the kit field for the highest-quality FM tuners the III is still in the forefront.

Specifications: FM: Tube complement (1) 6CW4, (1) ECC85, (2) ECF80, (2) 6AU6, (2) 6BN6, (2) 12AX7, (1)EZ81, (1) 12AT7 (8) diodes; type of front end Nuvistor triode; no. of i.f. stages 5; type of detector Foster-Seely;



no. of audio stages 3; type of tuning indicator (2) level, center-of-channel, meters; output signal 3 volts; no. of outputs 2; controls tuning, loudness; switches a.f.c., interchannel muting, local/distance, power/stereo function; freq. resp. $\pm \frac{1}{2}$ db from 1 to 52,000 cps; signal-to-noise ratio 75 db; capture ratio 3 db; selectivity 240 kc bandwidth 6 db down; IHFM usable sensitivity 1.65 μ v; harmonic distortion (100% mod) less than 0.1%; stereo separation 30 db; type of stereo circuit switching; type of a.f.c. circuit solid state; drift less than 15 kc; dimensions 14 $\frac{1}{2}$ " wide, 6" high, 12 $\frac{1}{2}$ " deep; weight 30 lbs. Price \$229.95 assembled, \$219.95 kit. Accessories: WCI walnut cabinet, \$29.95. Harman-Kardon, Inc., Plainview, N. Y.

1. F50XX, FM-ster tuner kit\$129.95

HEATH

• **Model AJ-41 AM/FM Stereo Tuner.** In addition to AM or FM reception, the AJ-21 features a built-in stereo converter. A neon light indicator shows when an FM-stereo signal is received and individual tuning meters for AM and FM permit precise station settings. An FM squelch circuit eliminates noise between stations when tuning across the FM band. Cathode follower outputs provide low line impedance to minimize hum and high-frequency losses in the interconnecting audio cables. In mono AM or FM modes of operation the output stages are tied together to supply the same information to both the left and right channel amplifiers of a stereo system.

In FM stereo position both channels function separately. A multiplex phase control permits fine tuning for maximum separation.

Specifications: FM—tube complement, (9); type of front end, r.f. amp, osc, and mixer; no. of i.f. stages, 5; type of detector, discriminator; type of tuning indicator, meter; output signal, 0.5 volts; no. of outputs, 3; controls, power and afe, FM-stereo, phase, mode, AM fidelity and FM squelch, FM tuning, AM tuning, FM meter calibrate, AM meter calibrate, channel separation, left level, right level; freq. resp. ± 2 db from 20 to 20,000 cps; capture ratio, 12 db; IHFM usable sensitivity, 3 μ v; AM suppression, 25 db; harmonic distortion (100% mod.) 1%; stereo separation, 30 db; type of stereo circuit, matrix; type of a.f.c. circuit, reactance tube; dimensions, 15 $\frac{1}{4}$ " wide, 5 $\frac{1}{4}$ " high, 14 $\frac{1}{4}$ " deep; weight, 18 $\frac{1}{2}$ lbs.

AM: tube complement, 3; diodes, 2; type of circuit, r.f. amp superhet; 3-gang tuning capacitor; type of detector, voltage doubler; no. of i.f. stages, 1; type of tuning indicator, meter; controls (see above); IHFM usable sensitivity, 4 μ v; freq. resp. ± 3 db from 20 to 8000 cps; harm. dist. 1%. Other features: 10-ke whistle filter, switchable bandwidth. Price, \$189.95 assembled, \$119.95 kit. Heath Company, Benton Harbor, Mich.

1. AJ-30 Deluxe AM/FM tuner kit ... \$ 99.95
2. AJ-11 economy AM/FM tuner kit ... 69.95

KNIGHT-KIT

• **KF-75 FM-Stereo Tuner Kit.** Featuring wide-band i.f. circuitry and printed circuit boards for easy assembly, the KF-75 is intended for the economy-minded kit builder who desires fine FM-stereo reproduction.

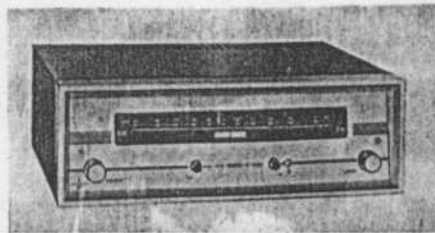


Specifications: Tube complement, (2) 6AU6, 12AU7, 6AL5, (2) 6CB6, (2) 6AQ5, 6X4, (2) ECC85, EZ81; type of front end, i.r.f.; no. of i.f. stages, 4; type of detector, discriminator; no. of audio stages, 2; type of tuning indicator, eye; output signal, 10 volts; no. of outputs, 2; controls, FM tuning, dimension; switches, on-off, DSR, a.f.c., selector; freq. resp. ± 1 db from 20 to 20,000 cps; selectivity, ± 3 db; IHFM usable sensitivity, 1.5 μ v; AM suppression, 40 db; harmonic distortion (100% mod.) 1%; stereo separation, 30 db; type of stereo circuit, matrix; dimensions, 15 $\frac{1}{2}$ " wide, 4 $\frac{1}{2}$ " high, 15" deep; weight, 26 lbs. Price, \$84.95 kit. Allied Radio Corporation, 100 N. Western Ave., Chicago 80, Ill.

PACO

• **Model ST45 AM/FM Tuner Kit.** Available in a variety of ways—as a full kit, as a semi-kit, and factory wired—the Paco ST-45 is a sensitive AM-FM tuner at a very moderate price. The AM and FM sections are independent so that simulcasts may be received or different programs may be sent simultaneously to different locations.

Specifications: FM: Tube complement 7 tubes, 6X4 rectifier, and 6M84; type of front end, three-gang tuning capacitor grounded grid r.f.; no. of i.f. stages 4; type of detector Foster-Seely discriminator; type of tuning indicator eye tube; output signal 2 volts; no. of outputs 2; controls "FM level," AM tuning, FM tuning; switches power, a.f.c., function selector; freq. resp. $\pm \frac{1}{2}$ db from 20 to 20,000 cps; sensitivity 2 μ v for 30 db quieting; harmonic distortion (100% mod.) 1%; type of a.f.c. circuit reactance tube; dimensions: 15 $\frac{1}{2}$ " wide, 5 $\frac{1}{2}$ " high, 11 $\frac{1}{2}$ " deep; weight, 19 lbs. Other features dual limiters, cathode followers output, complete FM circuitry on one printed-circuit-board, flywheel tuning, provision for addition of FM-stereo adapter. AM: Tube complement 3 tubes and crystal diode; type of circuit superhet with 3 stages a.v.c.; 3-gang tuning capacitor; controls AM level; switches same as above; freq.



resp. ± 3 db from 20 to 5000 cps; harm. dist. 1%. Other features, tuned r.f. stage, 10 ke whistle filter, cathode follower output, complete AM circuitry on one printed circuit board, rotatable built-in ferrite antenna, flywheel tuning. Price \$134.95 assembled; \$84.95 kit. Paco Electronics Co., 70-31 84th St., Glendale 27, L. I., N. Y.

1. ST35MX, FM-stereo tuner kit \$99.95
2. ST25, FM tuner kit 42.95
3. ST26, FM tuner plus amplifier kit 54.95
4. MX-100, multiplex adapter kit 49.95

R-A-E

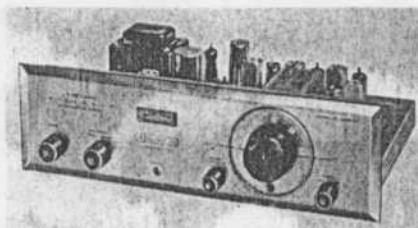
• **Model 250 Stereo-Mono Tuner Kit.** Another new kit product from R-A-E featuring kit design for easy construction plus a good performing instrument.

Specifications: FM: Tube complement (2) 6AU6, 6AU5, 6BN6, 6AV6, 6X4, (2) ECC85, (2) 6AU6; type of front end Torotor; no. of i.f. stages 3; type of tuning indicator 6M84; output signal 0.5 volts; no. of outputs mono & stereo; controls: tuning, mono volume, stereo volume; IHFM usable sensitivity 0.7 μ v; AM suppression 20 db; stereo separation 30 db; type of stereo circuit gate switch; dimensions: 9" wide, 8 $\frac{1}{4}$ " high, 11" deep; weight, 9 lbs.

Other features: four parts boards and three decks are assembled and wired separately, and then mounted on the chassis. Price, \$129.95 kit. R-A-E Equipment, Inc., Central Bank Bldg., Great Barrington, Mass.

H. H. SCOTT

• **LT-110 Wide-Band FM Multiplex Stereo Tuner Kit.** The new LT-110 utilizes the same front end used in the famous Scott 310D Broadcast Monitor tuner. The front end and multiplex sections are pre-wired and pre-aligned at the factory assuring ideal reception and stereo quality even in weak signal areas, and eliminating the need for elaborate test equipment in alignment. The silver-plated front end, copper-bonded-to-aluminum chassis, and wide-band design all contribute to an IHFM sensitivity of 2.2 microvolts. The LT-110 uses an even more simplified Ez-A-Line method than that used so successfully by builders of thousands of LT-10 tuners.



Specifications: FM: type of front end cascade; no. of i.f. stages 3; type of detector ratio; no. of audio stages 3; type of tuning indicator meter; output signal 1.5 volts; no. of outputs 2 sets; controls vernier tuning, level; switches a.g.c., independent on/off; freq. resp. ± 1 db from 20 to 20k cps; signal-to-noise ratio 60 db; capture ratio 6.0 db; selectivity 3.5 db; IHFM usable sensitivity 2.2 μ v; AM suppression 55 db; harmonic distortion (100% mod.) 0.8%; stereo separation 35 db; type of stereo circuit time switching; drift 0.02%. Other features sub-channel noise filter, switchable a.g.c. circuitry to permit tape recording, front panel audio output for taping. Price, \$159.95 kit. Accessories, cases in various woods & metal from \$13.95. H. H. Scott, Inc., 111 Powdermill Road, Maynard, Mass.

1. LT-10 FM mono tuner kit \$99.95

TUNER-AMPLIFIERS OR RECEIVERS

ALTEC

• **"Astro" AM-FM-MPX Receiver.** Five integrated stereo components are packaged in a compact 6" x 15" x 13 $\frac{1}{4}$ " cabinet: FM, FM multiplex, AM, dual-channel preamplifiers, dual-channel power amplifiers. The wide-band FM tuner features sensitivity to assure highest gain, lowest noise. A built-in FM multiplex tuner provides 30 db stereo separation between channels over the entire audio range.

To take all guesswork out of tuning, a monitor light flashes automatically when stereo signal is received. The AM tuner provides excellent image and i.f. rejection. The amplifier section features a complete complement of controls and includes facilities for everything from record and tape player to the stereo headphones. Powerful dual-channel amplifiers.



Specifications: FM: Tube/transistor complement (entire rec.) (12) transistors, (5) diodes, (18) tubes, type of front end cascade; type of tuning indicator eye tube; freq. resp. ± 1 db from 20 to 20,000 cps; IHFM usable sensitivity 2 μ v; stereo separation 30 db; type of stereo circuit time division; AM: IHFM usable sensitivity 2.9 μ v.

Amplifier: Freq. resp. 20 to 20,000 cps ± 1 db at 1 watt output; IHFM music power output 27.5 watts per channel; harmonic distortion, 1% at 20 watts from 25 to 10,000 cps; hum and noise, 60 db below 20 watts output; sensitivity, input for rated output—meg. phono, 4 mv, cer. phono .25 volts; damping factor 10; output impedances 8, 16 ohms; inputs—4 phono, 2 tape head, 2 tape amp; dimensions: 15" wide, 5 $\frac{1}{4}$ " high, 14 $\frac{1}{4}$ " deep. Price, \$597.00 Altec Lansing Corp., 1515 S. Manchester Ave., Anaheim, Calif.

BELL

• **Model 2445 Stereo Amplifier-Tuner Combination.** Offering such unusual features as cancellation of vertical components when the mode switch is in mono position, and the provision of two phono inputs so that two recording sources may be left connected at all times, the 2445 offers complete stereo-mono control for a high-quality home system.

Specifications: FM: Tube complement (1) 6BN6, (2) ECC85, (1) 6AB4, (3) 6AU6; type of front end, neutralized cascade; no. of i.f. stages 3; type of detector, ratio; type of tuning indicator meter; output signal 1.5 volts; no. of outputs 3; switches, a.f.c.; freq. resp. ± 1 db from 30 to 55,000 cps; signal-to-noise ratio 55 db; IHFM volume sensitivity 1.5 μ v; capture ratio 2 db; selectivity -6 db 250 kc; IHFM usable sensitivity 1.8 μ v; AM suppression 40 db; harmonic distortion (100% mod.) 1%; stereo separation 28 db; type of stereo circuit, time switching; type of a.f.c. circuit, reactance tube. Other features, Stereo Sentry—indicator light for stereo FM. AM: Tube complement (2) 6DA6, (1) 6BE6, (1) 6BN6, (1) EZ80; type of circuit r.f., delayed a.v.c.; 3-gang tuning capacitor; type of tuning indicator diode; IHFM usable sensitivity 25 μ v; IHFM volume sensitivity 3 μ v; freq. resp. ± 1 db from 30 to 4000 cps; harm. dist. 1%. Freq. resp. 20 to 20,000 cps ± 1 db at 1

watt output; power bandwidth, 35 to 20,000 cps; IHFM music power output 22 watts per channel; power output, rms, 20 watts per channel; harmonic distortion, 1% at 20 watts from 50 to 15,000 cps; IM distortion 1% at 20 watts; hum and noise, 63 db below 1 watt output; sensitivity, input for rated output—phono, 3 mv, aux. 0.1 volts; damping factor 4; output impedances 4, 8, 16 ohms high Z for recorder; inputs—4 phono, 2 tape head, 2 tape amp, 2 aux, 2 cer phono; dimensions: 17 3/16" wide, 5 7/16" high, 13 3/4" deep; weight, 35 lbs. Bell Sound Division, Thompson Ramo Wooldridge, Inc., 6325 Huntley Rd., Columbus, Ohio.

BOGEN

• **RP60 FM-AM Stereo Receiver.** Combining an FM-AM stereo tuner with an integrated stereo preamplifier and 60-watt amplifier, the RP60, represents great flexibility in a single unit. For FM broadcasts, the RP60 is equipped with a "Stereo-Minder" indicator that lights up when a station is transmitting in FM stereo. For private enjoyment of stereo, the RP60 has an outlet on the front panel for stereo headphones. Elegant brushed gold finish adds the decorator look to blend perfectly with any decor.



Specifications: FM: Tube/transistor complement 10 tubes and 6 diodes; type of front end grounded grid; no. of i.f. stages 3; type of detector ratio detector; type of tuning indicator electronic eye; no. of outputs 5; controls program selector, mode, volume, balance, bass, treble, power, tuning; switches rumble filter, scratch filter, loudness, tape monitor, dynamic a.f.c. stereo filter; freq. resp. ± 1 db from 20 to 20,000 cps; signal-to-noise ratio 60 db; IHFM volume sensitivity $\pm 5 \mu\text{v}$; capture ratio 4 db; selectivity 40 db; IHFM usable sensitivity 2.5 μv ; AM suppression 50 db; harmonic distortion (100% mod.), 0.5%; stereo separation 30 db; type of stereo circuit time division; type of a.f.c. circuit reactance; drift 20 kc.; dimensions: 15 15/16" wide, 5 1/4" high, 15" deep; weight, 28 lbs.

Other features: tape recording filter, a.g.c., auto, whistle filter. AM Tube/transistor complement 4 tubes and 1 diode; type of circuit super-het; 3 gang tuning capacitor; type of detector diode; no. of i.f. stages 2; type of tuning indicator electronic eye; IHFM usable sensitivity 10 μv ; IHFM volume sensitivity 10 μv ; freq. resp. ± 3 db from 30 to 5000 cps; harm. dist. 1%.

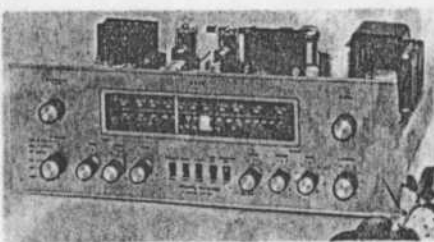
Amplifier: Freq. resp. 20 to 30,000 cps ± 1 db at 2.5 watts output; power bandwidth, 50 to 15,000 cps; IHFM music power 30 watts per channel; power output, rms, 27 watts per channel; harmonic distortion, 0.6% at rated output; IM distortion 0.3% at 2.5 watts; hum and noise, 50 db below 1 watt output; sensitivity, input for rated output—phono 4.5 mv, aux 0.5 volts; output impedances 4, 8, and 16 ohms; inputs 1 phono; 1 tape head, 1 aux. Price, \$299.95. Accessories: EN-7 metal enclosure, \$12.95; WB-7 Walnut enclosure, \$27.95. Bogen Communications Div. Lear Siegler Inc., Paramus, N. J.

1. RPF60 Stereo Receiver \$279.95
2. RP100-BM Monophonic Receiver .. 186.60

ERIC

• **Model 5761 MX Deluxe AM/FM Stereo Receiver.** Featuring a highly sensitive wide-band tuner with built-in multiplex circuitry combined with a dual 30-watt low-distortion amplifier. It is sturdily built on a heavy-gauge chassis, and components are worked well within their rated capacity. It is styled for flush-panel cabinet mounting, or in enclosures which are available for table top placement.

Specifications: Tubes, 19; transistors, 2; diodes, 2; pwr diodes, 2; FM; 1 tuned r.f. stage; no. of i.f. stages, 3; type of detector,



discriminator; type of tuning indicator, dual electron tube; controls, tuning, loudness, function, separate bass, treble, and loudness for each channel; switches, stereo/mono, reverse, visual balance, a.f.c., presence; freq. resp. ± 1 db from 20 to 20,000 cps; sensitivity, 1 μv for 20 db quieting; separation, 35 db; type of stereo circuit, sampling. AM: type of circuit, superhet; type of tuning indicator, electron tube; freq. resp., 20 to 8,000 cps; freq. resp. 20 to 25,000 cps ± 1 db at 25 watts output; power output, rms, 30 watts per channel; harmonic distortion, 1% at 25 watts; inputs—2 phono, 2 tape amp, 4 aux; dimensions, 16" wide, 5 1/4" high, 13 3/4" deep; weight, 25 lbs. Price \$319.95. Eric Electronics Corp., 1832 Colorado Ave., Santa Monica, California.

1. Model 5760 MX, 10/10-w receiver. \$199.95

FISHER

• **Model 500-B 65-Watt FM-stereo Receiver.** Here on one integrated chassis is a wide-band FM tuner, with built-in multiplex; a stereophonic master control center; and a 65-watt stereophonic amplifier. Simply add two speaker systems to be ready for regular or stereo FM broadcasts. Add a record player or tape recorder to round out the system. A switchable filter reduces hiss and background noise on FM-stereo programs without affecting the frequency response.



Specifications: FM: Tube complement 19 tubes, 12 diodes, 2 silicon rectifiers; type of front end double triode; no. of i.f. stages 4; type of detector ratio; no. of audio stages 14; type of tuning indicator cathode ray; no. of outputs 2 for recording plus speakers; controls—Front: Vol., Bal., Bass & Treble, Tuning; Rear: Level, Phase Reverse; switches—Selector, MPX Filter, Hi & Lo Filter, Tape Monitor Mono-Stereo, Loudness; freq. resp. ± 1.0 db from 20 to 15,000 cps; signal-to-noise ratio 70 db. r.f.; IHFM volume sensitivity below noise level; capture ratio 2.5 db; selectivity 53 db; IHFM usable sensitivity 2.2 μv ; AM suppression 55 db; harmonic distortion (100% mod) 0.5%; stereo separation 35 db; type of stereo circuit time-division switching; drift 15 kc.

AMPLIFIER: Freq. resp. 20 to 25,000 cps ± 1.5 db at 2 watts output; power bandwidth, 16 to 32,000 cps; IHFM music power output 32.5 watts per channel; power output rms, 27 watts per channel; harmonic distortion 0.8% at 27 watts rms at 1000 cps; hum and noise, 80 db below full output; sensitivity, input for rated output—phono 3.3. mv, aux. 0.23 volts; damping factor 10; output impedances 4, 8, 16 ohms; inputs, 2 phono, 2 tape head, 2 tape amp, 2 aux; dimensions; 17 1/2" wide, 5 3/4" high, 23 1/2" deep; weight 31 lbs. Price \$359.50. Accessories: Wood or Mahogany cabinets, \$24.95. Fisher Radio Corp., 21-21 44th Drive, L.I.C., N. Y.

1. 800-B, AM-FM MPX 65-w rec \$429.50

GROMMES

• **Model 500 Receiver.** Stereo FM tuner with AM, preamp and 70-watt power amplifier on one compact chassis. Has all of the new fea-

tures of models 70PG stereo amplifier and 101BM multiplex tuner plus high performance AM. Eight panel controls and 5 slide switches include concentric bass and treble, blend control and dual contour switches. Provision for center-channel speaker.

Specifications: FM: Tube (2) 6DTs, (3) 6H86, 6BA6, 6BE6, 6FG6, 12AU7 (7) 6EU7, (5) 7868, 6AB4, (8) diodes, (6) silicon rect.; type of front end cascode—3 gang capacitor; no. of i.f. stages 3; type of detector balanced diode; type of tuning indicator eye tube; controls tuning, selector, blend, bal., loudness, bass, treble, per sio; switches Lo filter, Hi filter, FM-stereo, contour-1, contour-2; freq. resp. ± 0.5 db from 20 to 20,000 cps; signal-to-noise ratio 60 db; capture ratio 6 db; selectivity 250kc; IHFM usable sensitivity 2 μv ; AM suppression 60 db; harmonic distortion (100%



mod.) 0.5%; stereo separation 30 db; type of stereo circuit bal. diode bridge switching, type of a.f.c. circuit none; drift 10 kc.

AM: Tube complement see above; type of circuit super het; 3 gang; tuning indicator eye tube; controls see above; switches see above; IHFM sensitivity 3 μv ; freq. resp. ± 3 db from 20 to 6500 cps; harm. dist. 1%.

AMPLIFIER: Freq. resp. 20 to 20,000 cps ± 5 db at 1 watt output; power bandwidth, 30 to 20,000 cps; IHFM music power output 35 watts per channel; power output, rms, 30 watts per channel; harmonic distortion, 2% at 30 watts from 30 to 15,000 cps; IM distortion 1% at 30 watts; hum and noise, 66 db below 1 watt output; sensitivity, input for rated output—phono, 3 mv aux 0.25 volts; damping factor 10; output impedances 4, 8, 16 ohms—1 mag. phono, 1 tape head, 1 aux. Dimensions: 16 1/2" wide, 6" high, 15" deep; weight, 35 lbs. Price \$299.95. Precision Electronics, Inc., 9101 King St., Franklin Park, Ill.

1. 502M, 24-w ster receiver \$239.95
2. 510, 12-w FM mono receiver 159.95
3. 511, 12-w FM-AM mono receiver ... 179.95

HARMAN-KARDON

• **TA5000X, Stereo Festival II.** The TA5000X combines an AM and FM-stereo tuner with a 50-watt stereo amplifier on the same chassis. The FM tuner is essentially the same as the F500X "Award" FM-stereo tuner. The amplifier, however, is not shared, and its specifications are shown.

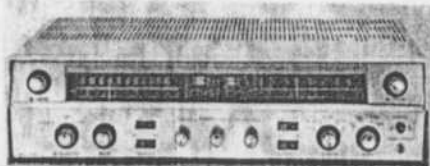


Specifications: Freq. resp. 12 to 70,000 cps ± 1 db at 1-watt output; power bandwidth, 20 to 20,000 cps; IHFM music power output, 25 watts per channel; power output, rms, 20 watts per channel; harmonic distortion, 0.5% at 10 watts from 20 to 20,000 cps; IM distortion, 0.9% at 25 watts; hum and noise, 85 db below rated output; sensitivity, input for rated output—phono, 2.0 mv, aux. 0.25 volts; damping factor, 10+; output impedances, 4, 8, and 16 ohms; inputs—2 phono, 2 tape head, 2 tape amp, 2 aux; dimensions, 16" wide, 6 1/4" high, 13 1/2" deep; weight, 40 lbs. Price, \$299.95. Accessories, WWSO walnut enclosure, \$29.95; CXSO cage, \$12.95. Harman-Kardon, Inc., Plainville, N. Y.

1. Model TA3000 X, "Stereo Recital II" 30-w rec \$239.95
2. FA10, mono 10-w rec 114.95

KENWOOD

• **KW60 Stereo Receiver.** This stereo tuner-amplifier faithfully reproduces the entire audio range and provides a compact and versatile unit for the most critical audiolofan. With AM, FM, and FM stereo available, together with all the requirements for audio control, the user has a wide range of sources at his command.

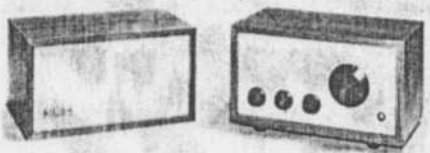


Specifications: Tube complement (2) 6CA4, (2) 6BA6, (5) 6AU6, (1) 6AL5, (3) 12AU7, (2) 6AQ8, (4) 12AX7, (1) 6BE6, (4) 7189, (3) OAS1 diodes; FM: type of tuning indicator meter; controls, FM tuning, AM tuning, AM selectivity, volume, bass, treble, balance, selector, mode; switches, a.f.c. off/on, loudness, scratch filter, rumble filter, speaker on/off; sensitivity 2 μ v; other features, headphone jack on front panel. AM sensitivity 40 μ v.

Amplifier: Freq. resp., IHFM music power output 30 watts per channel; power output, rms, 24 watts per channel; harmonic distortion, 1% at 24 watts; sensitivity, input for rated output—phono, 3 mv, aux. .07 volts; inputs—2 phono, 2 tape head, 2 aux; dimensions, 19 $\frac{3}{4}$ " wide, 6" high, 13 $\frac{1}{2}$ " deep; weight, 37 $\frac{1}{2}$ lbs. Price \$279.95. Kenwood Electronics, Inc., 212 Fifth Ave., New York 10, N. Y.

KLH

• **Model 8 FM Receiving System.** Housed on two solid walnut cabinets—one for the tuner and amplifier and the other for the speaker system, the KLH Model 8 is a complete FM receiving system, in spite of its compactness and simplicity. The tuner is extremely sensitive and stable, and the amplifier—though low-powered—is more than adequate in capacity, and is low in distortion. By designing the amplifier to complement the frequency response of the speaker, the entire performance can be engineered for optimum quality.



Specifications: Tuned r.f. stage, three i.f. stages, wideband detector; a.f.c. and tuning indicator not necessary because of circuitry; IHFM usable sensitivity, 2.5 μ v; distortion for 100% mod., 1%. **Amplifier:** output, 3 watts, rms; controls, power, tuning, volume, and high-cut; frequency response, matched for flat acoustic output from the system's loudspeaker. **Speakers:** 2, high-excursion, in 4-in. frame; enclosure Fibreglas filled, sealed. Furnished with 30-ft. cord between speaker and tuner-amplifier unit. Dimensions of each cabinet: 10 $\frac{3}{4}$ " wide, 5 $\frac{3}{4}$ " high, 6 $\frac{1}{2}$ " deep. Price, \$159.00. KLH Research and Development Corp., 30 Cross St., Cambridge 39, Mass.

KNIGHT-KIT

• **KN-45 AM-FM Stereo Receiver Kit.** A single low-cost unit containing a control center, a 32-watt stereo amplifier, and an AM-FM stereo tuner.

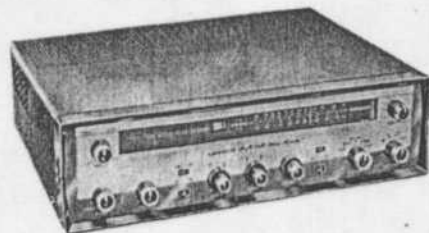
Specifications: Tube complement—(1) 6BE6, (2) 6BA6, (2) 6AU6, (1) 6AL5, (1) EM84, (1) 7025, (5) 12AX7, (4) 7189, (1) GZ34, (1) 6GY8; FM—no. of i.f. stages, 3; type of detector, ratio; type of tuning indicator, eye tube; controls—dual concentric bass and treble, balance, volume, tuning; switches—selector, power, stereo reverse, a.f.c.; freq. resp. ± 1 db from 20 to 20,000 cps; selectivity, ± 3 db; IHFM usable sensitivity, 2.5 μ v; AM

suppression, 40 db; harmonic distortion (100% mod.) 1%; stereo separation, 25 db; type of stereo circuit, matrix; dimensions, 16-7/16" wide, 4 $\frac{1}{4}$ " high, 13" deep; weight, 39 lbs. AM—type of circuit, superhet with r.f. amp; 2-gang tuning capacitor; type of detector, infinite impedance; no. of i.f. stages, 1; type of tuning indicator, eye tube; switches—bandwidth selector; IHFM usable sensitivity, 3 μ v; freq. resp. ± 3 db from 20 to 10,000 cps; harm. dist., 2%. **Amplifier:** freq. resp. 35 to 16,000 cps ± 1 at 16 watts output; power bandwidth, 55 to 16,000 cps; power output, rms, 16 watts per channel; harmonic distortion, 1.5% at 16 watts from 25 to 15,000 cps; IM distortion, 0.35% at 1 watt; hum and noise, 75 db below rated output; sensitivity, input for rated output—phono, 2 mv, aux, 0.2 volts; output impedances, 4, 8, and 16 ohms; inputs—2 phono, 2 tape head, 4 aux; dimensions, 16-7/16" wide, 4 $\frac{1}{4}$ " high, 13" deep; weight, 39 lbs. Price, \$129.95 kit. Allied Radio Corporation, 100 N. Western Ave. Chicago 80, Ill.

LAFAYETTE

• **LA-226 40-Watt FM-AM-FM Stereo Receiver.** A completely integrated receiver, the LA-226 combines AM, FM, FM-stereo, and an amplifier to make almost a complete system at an unusually moderate price.

Specifications: FM: Tube complement 20 tubes plus 7 diodes; no. of i.f. stages 4; type of detector ratio; type of tuning indicator meter; no. of outputs 4 pair; controls off/on, blend, volume, concentric bass and treble, balance, tuning; switches selector, rumble filter, loudness, FM, noise, scratch; freq. resp. $\pm \frac{1}{2}$ db from 20 to 20k cps; IHFM usable sensitivity 3.5 μ v; harmonic distortion (100%



mod.) .7%; stereo separation 30 db. Other features: stereo headphone jack, speaker phase switch. AM: Tube complement (1) 6BA6, (1) 6BE6, (1) diode; 3-gang tuning capacitor; type of detector diode; type of tuning indicator meter; Ampl: freq. resp. 20 to 20,000 cps ± 2 db at 20 watts output; IHFM music power output 20 watts per channel; harmonic distortion, 1.5% at 20 watts from 20 to 20,000 cps; hum and noise, 60 db below 1 watt output; sensitivity, input for rated output—phono, 2 mv, aux. 0.1 volts; output impedances 8, 16 ohms; inputs—mag. phono, crystal phono; dimensions: 17 $\frac{1}{2}$ " wide, 5 $\frac{3}{4}$ " high, 15" deep; weight, 45 lbs. Price, \$189.95 assembled. Lafayette Radio Electronics, 111 Jericho Turnpike, Syosset, L. I., N. Y.

MONARCH

• **Series 200MX AM-FM-Stereo Receiver.** Compact tuner-amplifier with complete control center for home stereo systems. Features built-in AM and FM antennas, "center" channel output, and transistor preamps, and housed in sparkling black metal cabinet with gold finished escutcheon.

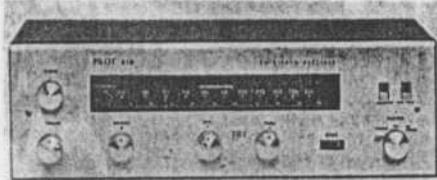
Specifications: Tube/transistor complement (2) 6AQ8, (1) 6BE6, (5) 6BA6, (4) 6BM8, (1) 12AX7, (1) 12AU7, (1) 5AR4, (1) 6BE13, (4) 2SB75, (3) 0A70, (2) 0A79; FM: type of detector Foster-Seely; controls, dimension, mode, selector, bass, treble, balance, volume, tuning; switches, power, phase reverse, loudness, scratch, rumble; sensitivity 2 μ v for 20 db quieting, (100% mod.) AM: sensitivity 13 μ v; Freq. resp. 20 to 50,000 cps ± 1 db; power outputs, rms, 16 watts per channel; hum and noise, phono, 65 db; tuner, 70 db sensitivity, input for rated output—phono, 3.5 mv, aux. 170 mv; output impedances 4, 8, 16 ohms and center; inputs—4 phono, (2 low, 2 high) 2 tape amp, 2 aux, 2 mic; dimensions, 16 $\frac{3}{4}$ " wide, 5 $\frac{3}{4}$ " high, 13 $\frac{1}{4}$ " deep; weight, 26.4 lbs. Price, \$199.95. Mon-

arch Electronics International, Inc., North Hollywood, California.

1. STA-260, 30/30-w ster rec\$249.95
2. MAT-120, 12-w mono AM/FM rec .. 109.95

PILOT

• **Model 610, 24-Watt FM-mpx Stereo Receiver.** Connect two speaker systems, turn on the unit, and in seconds enjoy music broadcast in FM-stereo. The 610 utilizes Pilot's signal-sampling multiplex circuit that assures perfect stereo separation. Make stereo tapes off the air using the tape output connections (and tape recorders). The 610 has a tape monitor for making instantaneous comparison between the program being taped and the tape itself. For FM listeners, probably the most useful feature is the automatic FM-stereo indicator that immediately alerts you when a station is broadcasting stereo. In black and brushed gold styling, complete with cover.



Specifications: FM: Tube complement (1) EM-84, (1) ECC-85, (1) 6GM6, (1) 6EW6; no. of i.f. stages 2; type of detector ratio; no. of audio stages 3; type of tuning indicator eye tube; detector output signal 0.1-2 volts; controls tuning; freq. resp. ± 1 db from 20 to 15,000 cps; capture ratio 8 db; alt. channel selectivity 22 db; IHFM usable sensitivity 4 μ v; AM suppression 40 db; harmonic distortion (100% mod.) $\frac{1}{2}$ %; stereo separation 30 db; type of stereo circuit signal sampling; drift ± 30 kc; Other features: built-in line-cord antenna.

AMPLIFIER: Freq. resp. 10 to 25,000 cps ± 1 db at 1 watt output; power bandwidth, 50 to 9000 cps; IHFM music power output 12 watts per channel; power output, rms 10 watts per channel; harmonic distortion, 1% at 10 watts from 70 to 7000 cps; IM distortion 2% at 6 watts; sensitivity, input for rated output—phono, 4 mv, aux, 0.1 volts; damping factor, 3; output impedances, 8, 16 ohms; inputs—2 phono, 2 tape amp; dimensions, 14 $\frac{1}{2}$ " wide, 4 $\frac{1}{2}$ " high, 10" deep. Price, \$199.50. Pilot Radio Corp., 37-06 36th St., L.I.C., N. Y.

1. Model 602MA, FM-mpx stereo receiver with cover\$249.50
2. Model 602SA, FM-mpx-AM stereo receiver with cover 299.50
3. Model 654M, FM-mpx stereo receiver with cover 329.50
4. Mark III, FM tuner with cover 49.95
5. Model 280B, FM-stereo tuner with cover 99.95

PIONEER

• **SM-Q 300 Receiver.** The newly announced Model SM-Q 300 is a deluxe model designed with care. It includes such features as tuners capable of receiving all types of radio broadcasting, output of 40 (20+20) watts, many auxiliary circuits, and so on.

Specifications: FM: Tube complement 19 tubes, 6 diodes; no. of i.f. stages 3; type of detector Foster-Seely; no. of audio stages 5; type of tuning indicator eye tube; output signal 10 volts; no. of outputs 2; controls bass, treble, mode, blend, balance, volume, loudness; switches power, selector A, selector B, rumble filter, scratch, whistle; signal-to-noise ratio 30 db; IHFM usable sensitivity 10 μ v; harmonic distortion (100% mod.) 1%; stereo separation 45 db.

AM: Tube complement, 6 tubes 2 diodes; type of circuit Superhet; 2-gang tuning capacitor; type of detector diodes; no. of i.f. stages 2; type of tuning indicator eye tube; IHFM usable sensitivity 100 μ v.

AMPLIFIER: Freq. resp. 20 to 50,000 cps ± 1 db at .05 watts output; power bandwidth, 20 to 50,000 cps; IHFM music power output 20 watts per channel; power output, rms, 15 watts per channel; harmonic distortion, 1% at 35 watts at 1 k cps; IM distortion 1% at

15 watts; sensitivity, input for rated output—phono, 3.4 mv, aux. 160 mv; output impedances 4, 8, 16 ohms; inputs per channel, phono, 2 tape head, 1 aux. 1 mic; dimensions, 13 1/4" wide, 5 1/2" high, 13 1/4" deep; 35.3 lbs. Pioneer Electronic Corp., 5 Otowacho 6-chome, Bunkyo, Tokyo, Japan.

1. AFT-12, FM-AM-SW stereo tuner
2. SM-B 200A, 28-w stereo
3. SM-C 204, 32-w stereo
4. SM-W 203, OTL stereo
5. FM-B 100, 10-w mono

REALISTIC

● **STA-7 FM-Mpwr 24-Watt Stereo Receiver.** FM-stereo reception plus a 24-watt stereo amplifier characterize the STA-7 as a complete receiver for FM broadcasting.

Specifications: FM: Tube complement (4) 6AQ5, (3) 6BA6, (2) 12AX7, (4) 6BM8, (1) 5A4; type of front end grounded-grid r.f. amp.; no. of i.f. stages 2; type of detector ratio; no. of audio stages 12; controls tuning, tone, volume, balance, blend, separation, hum, balance; switches a.f.c.—on/off, power, loudness, function selector, phase; freq. resp. ± 2 db from 30 to 15k cps; signal-to-noise ratio 50 db; IHFM volume sensitivity 4 μ v; IHFM usable sensitivity 5 μ v; harmonic distortion (100% mod.) 0.8%; stereo separation 27 db; type of stereo circuit carrier injection; type of a.f.c. circuit reactance diode; dimensions: 16" wide, 5" high, 11 1/4" deep; weight, 32 lbs. Other features: convenience outlet, stereo headphone jack on front panel, center-channel output.

Amplifier: Freq. resp. 20 to 20k cps ± 1 db at 1 watt output; power bandwidth, 40 to 15 cps; IHFM music power output 13 watts per channel; power output, rms, 12 watts per channel; harmonic distortion 1% at 8 watts from 40 to 15k cps; IM distortion 1% at 12 watts; hum and noise, 51 db below 1 watt output; sensitivity, input for rated output—phono, 5 mv, aux. 0.65 volts; damping factor 10; output impedances 4, 8, 16 ohms; inputs 1 phono, 2 aux; dimensions as above. Price \$124.95. Radio Shack Co., 730 Commonwealth Ave., Boston 17, Mass.

H. H. SCOTT

● **340 60-watt Stereo Multiplex Tuner/Amplifier.** A sensitive wide-band FM-Multiplex tuner, a complete stereo control center, and 60-watt power amplifier all on one compact chassis. Unique "Sonic-Monitor" tunes to the tone to tell you audibly when FM-stereo programs are on the air. If you do not require AM, the 340 provides all the outstanding performance of the 350 and an amplifier providing full power down to 20 cps. The 340 offers superb performance and amazing flexibility at modest cost.



Specifications: FM: Tube complement 18 tubes, 13 diodes; type of front end cascode; no. of i.f. stages 3; type of detector ratio; no. of audio stages 3; type of tuning indicator meter; controls tuning; switches "Sonic Monitor," ago; freq. resp. ± 1 db from 20 to 20k cps; signal-to-noise ratio 60 db; capture ratio 6.0 db; selectivity 35 db; IHFM usable sensitivity 2.5 μ v; AM suppression 55 db; harmonic distortion (100% mod.) 0.5%; stereo separation 35 db; type of stereo circuit time switching; drift 0.02%. Other features sub-channel noise filter, switchable a.g.c.

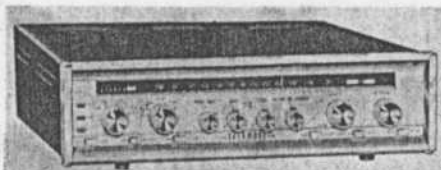
Amplifier: Freq. resp. 20 to 20 k cps ± 1 db at 10 watts output; power bandwidth, 19 to 25 k cps; IHFM music power output 30 watts per channel; power output, rms, 26 watts per channel; harmonic distortion 0.8% at 10 watts from 20 to 20 k cps; IM distortion 0.5% at 10 watts; hum and noise 80 db below 1 watt output; sensitivity, input for rated output—phono, 3 mv, aux. 0.5 volts; damp-

ing factor 16; output impedances 4, 8, 16 ohms; inputs—4 phono, 1 tape head, 1 tape amp, 1 aux. 1 (other); dimensions, 17 1/2" wide, 6 1/4" high, 16 1/4" deep, weight, 37 lbs. Price, \$379.95. Accessories: cases in various woods and metal from \$17.95. H. H. Scott, Inc., 111 Powdermill Road, Maynard, Mass.

1. 355 AM-FM Multiplex tuner, preamp \$334.95

SHERWOOD

● **S-8000 FM-Stereo 64-watt Receiver.** This unit contains all of the electronics for a complete home-music system on a single compact chassis. The S-8000 features two 32-watt amplifiers, complete with dual preamplifiers for phono and tape plus a highly sensitive FM tuner with complete wired-in circuitry for receiving FCC-approved FM multiplexed stereocasts. Just add speakers to complete your stereo home hi-fi music system.



Specifications: FM: Tube/transistor complement 21 tubes, 4 silicon rect., 4 diodes; type of front end cascode; no. of i.f. stages 2; type of detector discrim; no. of audio stages 2; type of tuning indicator EMS 4 split bar eye; output signal 1.5 volts; no. of outputs stereo pair; controls FM-tuning, loudness, stereo balance, hush, bass, treble, phono gain; switches a.f.c. off-on, hi-filter, lo-filter, phanse rev, tape monitor, loudness contour; freq. resp. $\pm 1/2$ db from 20 to 20k cps; signal-to-noise ratio 55 db; capture ratio 4 db; IHFM usable sensitivity 1.9 μ v; harmonic distortion (100% mod.) 1/8%; stereo separation 40 db; type of stereo circuit phase loaded osc. and bal. synth. detector; type of a.f.c. circuit reactance tube; drift 25 kc. Other features, "interchannel hush" or noise squelch, fly-wheel tuning.

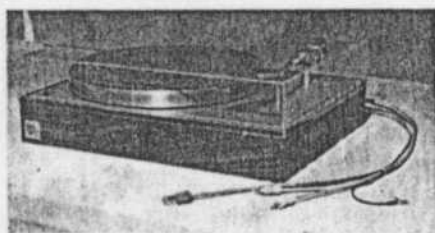
Amplifier: Freq. resp. 20 to 20k cps $\pm 1/2$ db at 30 watts output; IHFM music power output 32 watts per channel; power output, rms, 30 watts per channel; harmonic distortion, 1/2% at 30 watts; hum and noise, 75 db below 1 watt output; sensitivity, input for rated output—phono, 1.2 mv, aux. 1/4 volts; damping factor 5; output impedances 4, 8, 16 ohms; inputs—stereo phono, stereo tape head, stereo tape amp, stereo aux. Dimensions, 16 1/4" wide, 4 1/2" high, 14" deep; weight, 34 lbs. Price \$299.50. Accessories, case, \$7.50. Sherwood Electronic Labs, 4300 N. California Ave., Chicago 18, Ill.

TURNTABLES WITH ARMS

ACOUSTIC RESEARCH

● **Single-Speed Turntable.** This turntable is Acoustic Research's first product outside of the loudspeaker field. A single-speed (33 1/3-rpm) turntable, it comes complete with arm, oiled walnut base, transparent dust cover, cables, and even an overhanging adjustment device and stylus-force gauge. Manufacturer states that a condition of sale is that these turntables meet NARTB specifications for broadcast equipment on wow, flutter, rumble and speed accuracy.

Specifications: Speeds 33 1/3 rpm, belt drive permanent magnet synchronous motor; turntable diameter, 11 11/16"; turntable weight, 3.3 lbs; shaft diameter .375"; turntable material aluminum; mat polyurethane; wow, 0.15%; flutter, 0.05%; dimensions of chassis, 12 1/2" x 16 1/2"; clearance required above mounting board, 2 9/32"; below, 2 3/4"; type of mounting, spring; controls, on-off; pickup head, universal; material, Acrylic;

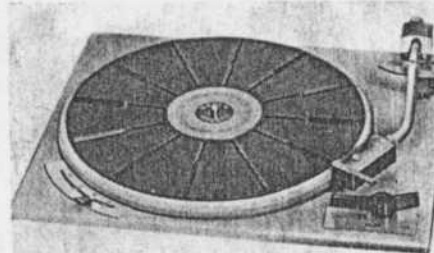


number of mounting screws for cartridge, 2 plus spares; mounting dimensions, adjustable; number of leads to head, 4; number of leads to chassis, 5. Price \$58.00. Acoustic Research, Inc., 24 Thorndike St., Cambridge, Mass. Miscellaneous 19A1

BOGEN

● **B61 Turntable.** Precision made to give noiseless, studio-quality performance. Complete with integrated tone arm, tracks as low as 1.5 grams. Precise automatic cueing and continuously variable speed are two features of the B61.

Specifications: Speeds 78, 45, 33 1/3, 16 rpm plus continuously variable 20-36 rpm; drive, four-pole motor; turntable diameter, 12"; turntable weight, 7 1/2 lbs.; spindle shaft diameter, 9/32"; turntable material zinc alloy;



mat, rubber; wow, less than 0.2%; flutter, less than 0.2%; dimensions of chassis, 15 1/4" x 13 1/4"; clearance required above mounting board, 2 1/4"; below, 2 1/4"; type of mounting, spring; controls, speed, on-off play; pickup head plug-in; material, aluminum; number of mounting screws for cartridge, 8 screws enclosed; mounting dimensions, 15" w x 13" d; number of pins (plug-in) to head, 4; number of leads to chassis, 3 (2 shielded); accommodation for different record sizes, 45-rpm adapter. Price \$59.95. Accessories: extra heads, \$4.00; PB6 wood base \$5.25. Bogen Communications Div. Lear Siegler Inc., Paramus, N. J.

DUAL

● **Four-Speed Changer-Turntable.** The Dual-1006 "Custom" is a combination record changer and turntable offering four-speed operation. The "roller-feeler" record indexing action permits intermixing of any size records for completely automatic operation. A shaded four-pole induction motor is used which goes from rest to correct speed in one-quarter of a revolution. The platter is laminated and concentrically grided for increased rigidity. The one-piece tone arm tracks and trips at 2 grams and is adjustable for a wide range of tracking forces. The arm has a built-in tracking-force gauge. A lock-in cartridge holder is provided for use with all standard cartridges. Built-in stereo mono switch.

Specifications: Speeds 16 2/3, 33 1/3, 45, 78 rpm; idler drive; 4-pole motor; turntable diameter, 10.6"; turntable weight, 3.75 lbs; shaft diameter 3/8"; turntable material steel; wow, 0.25%; flutter 0.25%; dimensions of chassis, 13 1/4" x 10 1/2"; clearance required above mounting boards, 3 1/2"; below 3"; type of mounting spring; controls (3) pushbuttons; automatic cycling time, 12 secs at 33 1/3 rpm, 12 secs at 78 rpm; type of pickup head interchangeable cartridge holder; material plastic; number of mounting screws for cartridge, 2; mounting dimensions, std; number of leads to head, 4; number of leads to chassis, 4; accommodation for different record sizes, all sizes intermixed 7"-12". Price \$79.95. Accessories: extra cartridge holders \$2.10, 45-rpm auto spindle \$4.80. United Audio Products, 12 W. 18th Street, N.Y. 11, N. Y.

LOUDSPEAKER MECHANISMS

ALTEC

• **605A Duplex Loudspeaker.** An improved version of the famous 604 series, the new 605A provides unusually smooth response in the highs, extremely high linearity, and clean transient response in the lows.

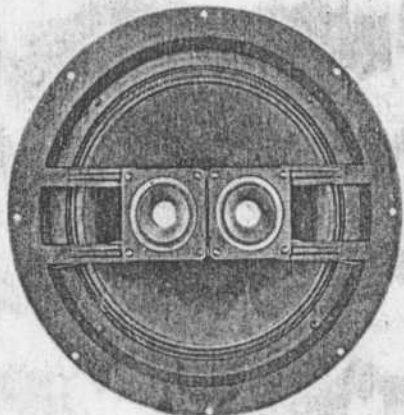
Specifications: Type, duplex; power handling capacity 35 watts; impedance 16 ohms; frequency response, from 20 to 22,000 cps; magnet weight, l.f., 40 oz., h.f., 24 oz.; voice coil diameter, l.f., 3", h.f., 1 3/4"; free air resonance frequency 25 cps. Dimensions: 15 5/16" dia. 10" deep; weight, 37 lbs. with network. Price \$177.00. Altec Lansing Corporation, 1515 S. Manchester Ave., Anaheim, Calif.

1. 602B Duplex, 25-w, 15-in. spkr ... \$143.00
2. 601B Duplex, 20-w, 12-in. spkr ... 120.00
3. 803B bass spkr, 30-w, 15-in. spkr .. 66.00
4. 408A "Biflex" 15-w, 2-in. spkr 31.00

BOZAK

• **B-207A Coaxial Speaker.** The B-207A is a 2-way speaker intended for infinite-baffle enclosures and "large" sound. It is capable of handling modern, high-powered amplifiers.

Specifications: Type 2-way; power handling capacity 20-60 watts; impedance 8 ohms; frequency response ± 3 db from 40 to 20,000 cps; magnet weight 40 oz.; voice coil diameter



1 1/2"; free air resonance frequency 36 cps; recommended enclosure volume 5 cu ft minimum. Dimensions 15" diameter 7" deep; mounting dimensions, 8 1/4-in. holes on 14 1/2" circle; cutout diameter 12 1/4"; weight 13 lbs. Price \$89.50. Other features: Designed for infinite-baffle mounting. R. T. Bozak Mfg. Co., P. O. Box 1166, Darien, Conn.

1. B-199A woofer, 12-inch \$52.00
2. B-209A midrange speaker, 6 1/2 inch. 51.00
3. B-200Y dual tweeter 32.00
4. B-800 8-inch wide-range speaker ... 45.00
5. M-108 8-inch wide-range weather-proof speaker 49.50

ELECTRO-VOICE

• **12 TRXB, 3-Way Speaker.** Incorporating the design advantages of the Electro-Voice Radax Coaxial principle, the Electro-Voice Model 12 TRXB integrated 3-way loudspeaker includes, also, the latest developments in the reproduction of the highest audible frequencies through the use of an Integral Super Sonax VHF driver. The 12 TRXB employs the Model T35B vhf driver. Bass response is excellent, affording pleasing musical balance without masking effects.

Specifications: Type 3-way loudspeaker; power handling capacity 20 watts; impedance

16 ohms; frequency response, from 35 to 18,000 cps; EFA sensitivity 52 db; magnet weight, woofer 1 lb. 6 oz. ceramic, tweeter 3.16 oz. Alnico V; voice coil diameter, woofer 2 1/2", tweeter 1 in.; recommended enclosure volume 20 cu ft. Dimensions: 12 1/4" dia. 7" deep; mounting dimensions, 4 9/32 in. holes on 11 1/2" circle; cutout diameter 10 1/2"; weight 16 1/2" lbs. Price \$70.00. Other features: Integral Sonophase vhf Driver, viscous damped cloth suspension; Electro-Voice, Inc., Buchanan, Michigan.

1. 12 TRX, 3-way speaker \$130.00
2. 15 TRXB, 3-way speaker 85.00
3. 15 TRX, 3-way speaker 155.00

GOODMANS

• **Triaxiom No. 175C 12-inch 3-Way Loudspeaker.** Triaxiom 175C consists of a 3-way speaker with three independent concentrically placed radiators, each designed for maximum performance and efficiency within its portion of the audio spectrum. The new low-resonance free-floating piston cone handles 25 watts of audio power in the bass region from 20 to 2000 cps. An electrical crossover provides maximum efficiency from 2000 to 5000 cps for the mid-range transducer. The Hypelliptical pressure-driven horn tweeter handles frequencies from 5000 cps to 35000 cps. Complete with electrical crossover and variable acoustical control over a 30" cable.

Specifications: Type 3-way triaxial; power handling capacity 50 watts; impedance 16 ohms; frequency response, from 20 to 20,000 cps; sensitivity (watts input for +85-db level 10 feet on axis) 1/4 watts; magnet weight 1 3/4 lbs.; voice coil diameter 1 3/4 in.; free air resonance frequency 32 cps; recommended enclosure volume 5 cu ft. Dimensions 12" dia. 5" deep; mounting dimensions, 1/4-in. holes on 11 3/4" circle; cutout diameter 11"; weight, 14 lbs. Price \$49.50. Rockbar Corp., 650 Halstead Ave., Mamaroneck, N. Y.

1. Triaxiom 8, 8" triaxial \$29.50
2. Triaxiom 208C, 8" triaxial, 3" voice coil 54.50
3. Triaxiom 100C, 12" triaxial 34.50
4. Twinaxiom 200C, 12" twin cone 24.50
5. DL#2, ultra-high frequency tweeter and 5kc crossover 12.95

HARTLEY

• **Hartley-Luth 220 MS Speaker.** This speaker features the tri-polymer cone and magnetic suspension under U. S. Patent #3,003,191. The magnet is 16,000 gauss, frame of cast aluminum. Outer surround of polysilastic for freedom of excursion, voice coil wound portion isolated from the shorted turn and damped by a dipped coating of polysiloxane. All the above impervious to conditions of high humidity and moisture. Wide dispersion of high frequencies plus excellent transient response. No crossovers or networks.

Specifications: Type full-range; power handling capacity 25 watts; impedance 8 ohms; frequency response, ± 3 db from 20 to 20,000 cps; magnet weight 5 3/4 lbs.; voice coil diameter 1 in.; free air resonance frequency 42 cps; recommended enclosure volume 4 cu. ft. Dimensions 10 3/4" dia. 5 1/2" deep; mounting dimensions, (4) 3/16-in. holes on 9 3/4" circle; cutout diameter 9 3/8"; weight, 7 lbs. Price \$135.00. Other features, resonance fully damped by shorted turn in coll. Hartley Products Co., Inc., 521 E. 162 St., New York 51, N.Y.

1. Model 312, 12" full-range spkr \$ 99.95
2. Model 310, 10" full-range spkr 85.00
3. Model "XP" 10" full-range spkr 75.00

IMF

• **IMF Styrene Pressure Drivers.** Uses polystyrene mass cone, for high accuracy in dynamic loudspeakers. Treble handled by phase-loaded pressure unit, providing very wide dispersion and smooth response. In cabinet of suitable dimensions, will provide smooth, clear reproduction of orchestral range.

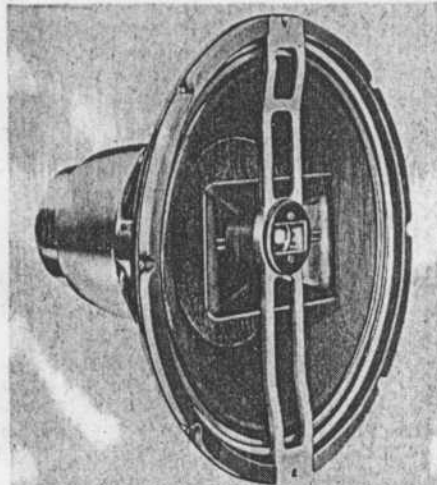
Specifications: Type 2-way; power handling capacity 30 watts; impedance 16 ohms; frequency response, from 25 to 16k cps; free air resonance frequency woofer 20 cps; recommended enclosure volume 1.5 to 2.5 cu. ft. Dimensions: 12 1/2" and 3 3/16" and 2 1/2" dia.

5 7/16" deep; mounting woofer & tweeter 9" center to center of openings; weight, 10 3/4 lbs. Price \$145.00 woofer & tweeter. Lectronics of City Line Center, 7644 City Line Ave., Philadelphia, Pa.

1. IMF ribbon system, ribbon tweeter, Crossover special woofers \$130.00
2. IMF Standard-Pressure system, 12" woofer/pressure tweeters 55.00

JENSEN

• **G-600 3-Way Loudspeaker.** The Jensen G-600 is a 3-way system with three electrically and acoustically independent l.f., m.f. and h.f. channels for utmost balance, efficiency, smoothness and range extension to upper hearing limit. M.f. and h.f. sections both employ compression-driver horn-loaded units for low distortion and wide-angle dispersion of highs. Separate dual crossover network. M.f. and h.f. balance controls, fully wired.



Specifications: Type 3-way; power handling capacity 35 watts; impedance 16 ohms; frequency response, from 30 cps to upper hearing limit; magnet weight 3 1/2 lb.

Dimensions: 15" dia., weight, 33 lbs. Price, \$134.50. Jensen Mfg. Co., 6601 S. Laramie St., Chicago 38, Ill.

1. JCG-6108, 15" triaxial \$252.75
2. H-223F, 12" coaxial 72.50
3. H-222, 12" coaxial 62.50
4. DX-120, 12" 2-element 27.50
5. DXF-80, 8" 2-element 24.50

LAFAYETTE

• **SK-58 12-inch 2-Way Speaker.** The SK-58 is a 2-way speaker with a 12-in. free-edge woofer plus a 3-in. cone-type tweeter, with the tweeter mounted on the same axis as the woofer. A built-in LC network distributes the frequencies to the appropriate speaker. The free edge of the woofer is connected to the speaker basket by means of sheepskin.

Specifications: Type coaxial; power handling capacity 20 watts; impedance 8 ohms; frequency response, from 30 to 15,000 cps; magnet weight 20 oz; free air resonance frequency 40 cps; recommended enclosure volume 6 cu. ft. Dimensions: 12 1/4" dia., 6 3/8" deep; cutout diameter 10 1/2"; weight, 11 lbs. Price \$27.00. Other features: brilliance level control, 3" cone tweeter. Lafayette Radio Electronics, 111 Jericho Turnpike, Syosset, L. I., N. Y.

1. SK-180, 10" 3-way \$32.50
2. SK-210, 12" 3-way 49.50
3. SK-128, 8" biaxial 19.50

JBL

• **LE14C, Full-Range 2-Way Coaxial Speaker.** The LE14C is designed to give optimum performance in minimum volume enclosures. The unique stepped-frame design permits the use of 14-inch low-frequency cone. The 4-inch diameter voice coil is constructed from edge-wound copper ribbon.

Specifications: Type 2-way coaxial; power handling capacity 30 watts; impedance 16 ohms; voice coil diameter 4 in.; free air re-

sonance frequency 25 cps; recommended enclosure volume 1.7 cu. ft. Dimensions 15" dia. 5 1/4" deep; cutout diameter 12 1/16"; weight, 21 lbs. Price \$150.00. James B. Lansing Sound, Inc., 3249 Casitas Ave., Los Angeles 39, Calif.

1. LEST\$66.00

MONARCH

• **Model SP-120XX Coaxial Speaker.** A 12-in. coaxial speaker with dual tweeters supported on a frame in front of the woofer cone and angled to project highs over a broad angle. Heavily constructed on a die cast aluminum frame.

Specifications: Type Coaxial; power handling capacity 15 watts; impedance 16 ohms; frequency response, 40 to 16,000 cps. Dimensions 12" dia. Price, \$24.95. Other features—dual tweeters mounted in front of woofer at divergent angles. Monarch Electronics International, Inc., North Hollywood, California.

1. SP-800X 8-in. coaxial spkr\$12.95
2. SP-300A 8-in. foil range spkr 12.50
3. SP-412 12-in. Tri-plex (3-way) spkr.. 46.95
4. SP-200 6 1/2-in. full-range spkr 7.95

NORELCO

• **Speaker Series.** Illustrated is Model AD-5277M, the most powerful in the new T-7 series of twin-cone speakers manufactured by Phillips of The Netherlands, and featuring Ticonal 7, a high-coercivity alloy which provides the highest possible concentration of flux densities in the voice-coil air gap. Weight for weight, Ticonal 7 is said to be about 30 per cent more powerful than any of the conventional magnet materials used in speaker construction. Voice-coil impedance of the new T-7 speakers is held constant throughout the entire frequency range by means of a copper ring fitted into the air gap. The ring acts as a shorted turn which induces a current opposite in polarity to that flowing through the voice coil, which reduces that current, thereby lowering the impedance to its proper level. The resonant frequency of the T-7 speakers is very low, resulting in an extremely straight response curve in the bass region. In addition to the cone for low and middle notes, the speakers are equipped with a high-note cone which extends the upper frequency range. Model AD-5277M is a 12-in. speaker with a frequency range of 35 to 18,000 cps and 20-watt continuous power handling capacity when properly housed. Cone resonance is 45 cps. High Fidelity Products Division, North American Phillips Company, Inc., Hicksville, N. Y. User net price, \$59.50.

1. AD-4277M 12" spkr\$39.00
2. AD-4877M 8" spkr 26.00
3. AD-3877M 8" spkr 9.90

OXFORD

• **HM12K5 12-inch Hidden Magnet Speaker.** Not an inverted magnet design, but rather a new design wherein the magnet and cone are both included within the basket. This permits the use of dual cones for extending the range of the speaker.

Specifications: Type 12"; power handling capacity 15 watts; impedance 8 ohms; frequency response, ± 3 db from 40 to 14,000 cps; sensitivity (watts input for +85-db level 10 feet on axis) 2.5 watts; magnet weight 12 oz; voice coil diameter 1.25 in.; free air resonance frequency 55 cps; recommended enclosure volume infinite baffle. Dimensions: 12 3/32" dia. 3 1/2" deep; mounting dimensions, (4) 3/8-in. holes on 1 1/8" circle; cutout diameter 11 1/16"; weight, 5 lbs. Price \$19.95. Other features: flush mounting instructions available for \$0.15 or part of HM box. Oxford Components, 3911 S. Michigan Ave., Chicago 53, Ill.

1. HMS0H4, 8-in speaker\$16.50

PERMOFLUX

• **"Royal" Speaker Line.** The Permoflux "Royal" speaker line includes 8- and 12-inch speakers in deluxe and standard configurations. The speaker cone in this series is flexible, slotted, thin at the edge, and coated with a permanently soft and resilient formula which together with an extra-large low-

resonance suspension at the cone apex gives very high compliance. The stiffened cone apex and special voice coil provide a smooth distribution of high frequencies.

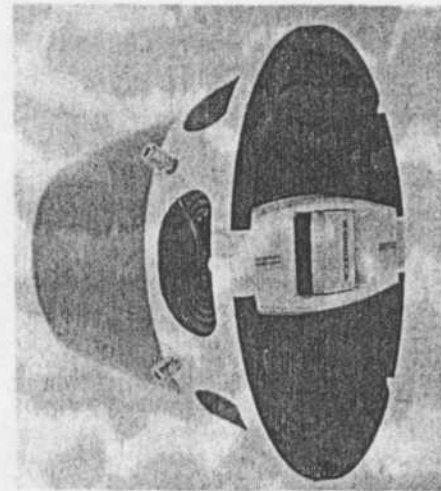
Specifications: Type 12"; power handling capacity 20 watts; impedance 8 ohms; frequency response, from 30 to 12,000 cps; magnet weight 16 oz; dimensions: 12 7/32" dia., 6 1/8" deep; weight, 5 1/4 lbs. Price \$32.50. Permoflux Corp., 4111 San Fernando Road, Glendale, California.

1. Royal Standard 12\$25.00
2. Royal Deluxe 8 22.50
3. Royal Standard 8 17.50
4. Royal 8 15.00

PIONEER

• **PAX-20G, 2-Way Speaker System.** The Pioneer PAX-20G is a 2-way speaker containing an 8-in. woofer and a horn-type tweeter, mounted coaxially.

Specifications: Type coaxial type; power handling capacity 15 watts; impedance 8 or 16 ohms; frequency response, ± 10 db from 40 to 20,000 cps; sensitivity (watts input for



± 85 -db level 10 feet on axis) 0.185 watts; magnet weight l.f. 9 oz. h.f. 1.35 oz.; voice coil diameter l.f. 1 3/8 in., h.f. 5/8 in.; free air resonance frequency 50-70 cps; Dimensions 5 1/2" deep; cutout diameter 6 3/4"; weight, 4 1/4 lbs. Pioneer Electronic Corp., 5 Otowacho 6-chome, Bunkyo-ku, Tokyo, Japan.

1. PAX-20 A, 8" coaxial speaker
2. PAT-30 X, 12" 3-way speaker
3. PW-25 C, 10-inch woofer
4. PM-12 A, 5 mid
5. PT-6, horn tweeter

R & A

• **Coaxial Speaker Series.** Manufactured by a well-known British speaker manufacturer, the 700 series Mark IV models are a group of high-quality woofer/midrange speakers. Although they vary in fundamental resonance they all provide smooth frequency response up to 18,000 cps. All feature Alcomax III Anisotropic magnet systems with a flux density of 12,000 gauss (10,000 gauss in 5-in. unit). The magnet assembly is easily removable without demagnetization and has zero external field. Power handling capacity is 10, 20, 25, and 30 watts respectively for Model 750 (5"), Model 780 (8"), Model 7100 (10"), and Model 7120 (12") speakers. Voice-coil impedance is 8 ohms for all models. Distributed in the United States by Ercona Corporation, 16 W. 46th St., New York 36, N. Y. User net price, Model 750 \$9.95, Model 780 \$14.95, Model 7100 \$16.95, Model 7120 \$18.95.

REALISTIC

• **Nova 212 3-way 12" Speaker.** A 12" 3-way speaker intended for modest-sized enclosures. It utilizes a whizzer midrange and horn tweeter with level control.

Specifications: Type permanent magnet; power handling capacity 20 watts; impedance 16 ohms; frequency response, from 35 to

18,000 cps; magnet weight 13.47 oz.; voice coil diameters—2" woofer, 1" tweeter; free air resonance frequency 60 cps; recommended enclosure volume 4 cu. ft. Dimensions: 12 1/2" dia. 5 1/2" deep; mounting dimensions, 4 1/2" holes on std circle; cutout diameter 10 1/2"; weight, 10 lbs. Price \$29.95. Radio Shack, 730 Commonwealth Ave., Boston 17, Mass.

1. Nova 112\$18.95
2. Nova 312 49.95

STENTORIAN

• **HF1012U Extended Range 10-in. Loudspeaker.** The "Stentorian" extended range loudspeaker features a cambric cone with mid-range stabilizers and universal impedance voice coil for 4, 8 or 16 ohms.

Specifications: Type permanent magnet; power handling capacity 10 watts; impedance 4, 8, or 16 ohms; frequency response, ± 2 db from 30 to 14,000 cps; magnet weight 32 oz; voice coil diameter 1 in.; free air resonance frequency 35 cps; recommended enclosure volume 2-8 cu ft. Dimensions 10.187" dia. 4.593" deep; mounting dimensions, 4 holes on 10 25/32" circle; cutout diameter 9 1/4"; weight, 6 1/2 lbs. Price \$18.95. Barker Sales Co., 339 Broad Ave., Ridgefield, N. J.

1. HF812U, 8-in. speaker \$14.95

STEPHENS

• **Model 800X.** Compact 8" coaxial loudspeaker combines qualities of the 80FR and the new RT-1 tweeter. Special mounting of tweeter does not increase speaker depth. Complete with crossover and brilliance control.

Specifications: Type 8" coaxial; power handling capacity 50 watts peak; impedance 16 ohms; freq. resp., ± 5 db from 40 to 25,000 cps; magnet weight 16 oz; voice coil diameter 2 in.; free air resonance frequency 50 cps; recommended enclosure volume 1.5 cu. ft. Dimensions, 8 1/4" dia., 4 1/2" deep; mounting dimensions, (4) 1/4-in. holes on 7 7/8" circle; cutout diameter 7"; weight, 8 lbs. Price \$55.50. Other features electronic crossover. Stephens Trusonic, Inc., 8538 Warner Drive, Culver City, Calif.

1. 80FR, 8" full range\$33.50
2. 120FR, 12" full range 60.00
3. 120LX, 12" coaxial 99.50
4. 120W, 12" woofer 60.00
5. 150FR, 15" full range 87.00

TANNOY

• **15" 'Monitor' Dual Concentric Loudspeaker.** The new "Monitor" dual concentric incorporates many unique features including the revolutionary patented Tannoy magnetic shunt. By the use of this device, the magnetic flux may be accurately distributed between the low-frequency and high-frequency voice coil gaps with magnetic losses reduced considerably and useful flux increased by as much as 20%. Results are smoother response, better damping, improved transient response, higher efficiency.

Specifications: Type dual concentric; power handling capacity 50 watts; impedance 16 ohms; frequency response, ± 3 db from 30 to 20,000 cps; magnet weight 6 1/2 lbs.; voice coil diameter h.f. 2", l.f. 2"; free air resonance frequency 32 cps; recommended enclosure volume depends on enclosure type. Dimensions: 15 1/4" dia. 9" deep; mounting dimensions, holes P.C.D. on 14 1/2" circle; cutout diameter 13 1/4"; weight, 20 lb., 13 oz. Price \$179.00. Other features integrated sound source with high-frequency horn-loaded diaphragm, and curvilinear l.f. diaphragm. Crossover: 1000 cps. Tannoy (America) Ltd., P. O. Box 177, East Norwich, L. I., N. Y.

1. 12" 'Monitor' dual concentric, same principle\$138.00
2. 10" 'Monitor' dual concentric (type III LZ) same principle 112.75

UNIVERSITY

• **Model 812 3-Way Speaker.** Model 312 Series 200 12" high-compliance 3-way speaker is capable of response from 28-40,000 cps. Award-winning die-cast design, high-compliance woofer. Mid-range provided by patented Diffusicone for uniform dispersion of the 1000 to 3000-cps frequencies. The coaxially mounted Sphericon Super Tweeter

has its own reflector baffle to prevent acoustic interference from woofer and provides 120 deg. dispersion. Built-in electrical crossover network and adjustable brilliance control.

Specifications: Type 3-way; power handling capacity 35 watts; impedance 8-16 ohms; frequency response, from 28 to 40,000 cps; voice coil diameter 2 in.; recommended enclosure volume 1.5 cu. ft. min. Dimensions: 13" dia. 6 5/8" deep; mounting dimensions, 7 3/8-in. holes on 12 1/2" circle; cutout diameter 11 1/8"; weight, 10 1/4 lbs. Price \$73.00. University Loudspeakers, 80 South Kensico Ave., White Plains, N. Y.

1. 315-C, Series 200, 15" 3-way \$156.00
2. 6201, Series 200, 12" coaxial 57.75
3. Diffusione-12, Series 200, 12" 2-way 39.75
4. 308, Series 200, 8" 3-way 42.00
5. Diffusione-8, Series 200, 8" 2-way... 28.00

UTAH

• 8-in. Uni-Drive Speaker, Model D8LA. An 8-in. speaker with good performance at a moderate price.

Specifications: Type dual-cone; power handling capacity 18 watts; impedance 8 ohms; frequency response, from 40 to 16,000 cps; magnet weight 10.0 oz.; voice coil diameter 1 1/4 in. Dimensions 8 3/32" dia. 4" deep; mounting dimensions, (8) 1/4"-in. holes on 7 11/16" circle; cutout diameter 7 13/16"; weight, 4 lbs. Price \$24.30. Other features has dual-diameter magnet. Utah Electronics Corp., Huntington, Ind.

1. D8SP, 8" 16.0 oz. magnet, 1 1/2" v.c. \$32.50
2. D8J, 8" 6.8 oz. magnet, 1" v.c. 17.50

3. D12J, 12" 6.8 oz. magnet, 1" v.c. 20.55
4. D12LA, 12" 10.0 oz. magnet, 1 1/4" v.c. 27.60
5. D12P, 12" 21.5 oz., magnet, 1 1/2" v.c. 40.00

WHARFEDALE

• Super 12RS/DD Full-range 12" Loudspeaker. A full range 12" speaker with an unusually powerful magnet system.

Specifications: Type full range; power handling capacity 40 watts; impedance 12-15 ohms; frequency response, from 25 to 15,000 cps; magnet weight 266 oz.; voice coil diameter 1 3/4 in.; free air resonance frequency 28-33 cps; recommended enclosure volume 2 cu. ft. or more. Dimensions 12 3/4" dia. 7" deep; mounting dimensions, 4 3/16-in. holes on 12 3/4" circle; cutout diameter 10 7/8" weight, 22 lbs. Price \$89.50. Other features 190,000 gauss total flux, density 17,000 gauss, roll surround for small enclosures, cast basket, aluminum voice coil. Wharfedale Div. British Industries Corp., Port Washington, N. Y.

1. Super 8" full-range speaker \$26.50
2. Super 10" full-range speaker 47.50
3. Super 3" treble speaker 26.50
4. W15 15" woofer 89.50
5. W12 12" woofer 52.50

WIGO

• Model CX-212 12" Coaxial. The CX-212 consists of a 12" extended range woofer, plus a twin-tweeter array with a built-in crossover network.

Specifications: Type 2-way; power handling capacity 30 watts; impedance 16 ohms; fre-

quency response from 30 to 15,000 cps; magnet weight 29 oz.; free air resonance frequency 40 cps. Price \$79.50. Other features: flux density 12,500 gauss. United Audio Products, 12 W. 18 St., New York, N. Y.

1. ERD-2 extended range (12") \$ 59.50
2. CX-2 twin-tweeter array 20.00
3. ER-2 extended-range (8") 21.00
4. TW-400 tweeter (4") 12.50
5. WD-155 super woofer (16") 169.50

WILDER

• Twin-Stereo, Model 808-A Loudspeaker. An 8-in. speaker sold in matched pairs for stereo. The 808-A has a rugged die-cast basket and close-tolerance cone.

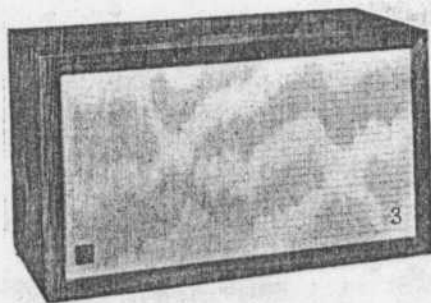
Specifications: Type 8" with whizzer; power handling capacity 25 watts; impedance 8 ohms; frequency response from 30 to 17,000 cps; magnet weight 16 oz.; voice coil diameter 2 in.; free air resonance frequency 44 cps; recommended enclosure volume 3 cu. ft. Dimensions: 8 1/2" dia. 4 1/2" deep; mounting dimensions, 1/2-in. holes on 7 5/8" circle; cutout diameter 6 3/4"; weight, 11 1/2 lbs. Price \$64.75 net. Wilder Engineering Products, 2013 N. Halsted St., Chicago, Ill.

1. 1208, 12" matched twin stereo speakers \$79.75
2. 12200-A, 12" biaxial, full-range speaker 39.95
3. 12145, 12" biaxial, wide-range speaker 23.95
4. 8220-A, 8" biaxial full-range speaker. 32.45
5. 8172-A, 8" biaxial, wide-range speaker 21.95

LOUDSPEAKER SYSTEMS IN ENCLOSURES

ACOUSTIC RESEARCH

• AR-3. The AR-3 is a three-speaker full-range system utilizing the patented acoustic-suspension principle. In this principle the woofer cone is mounted on very free suspensions, so compliant that they are unable to provide the elastic restoring force normally required of them. The elastic restoring force is supplied by the pneumatic spring formed by the air within the cabinet. Both the 2-in. mid-range and the 1 1/2 in. tweeter utilize hemispherically shaped diaphragms as direct radiators.



Specifications: Type of enclosure sealed; speakers 12" l.f., 2" m.f., 1 1/2" h. f.; type of crossover network L-C; impedance 4 ohms; sensitivity (watts input for +85-db level 10 feet on axis) 1.39 watts; magnet weights: l.f., 53 oz.; m.f., 53 oz.; h.f. 17 oz.; voice coil diameters: l.f., 2" m.f., 2" h.f. 1 1/2"; Dimensions: 25" wide, 14" high 11-3/9" deep; weight, 52.5 lbs.; finishes available and prices Mahogany or natural birch, \$216.00; unfinished pine \$203.00; Walnut, oiled walnut, cherry, korina, or teak \$225.00. Accessories: Speaker stand \$30.00; speaker base \$7.50. Acoustic Research, Inc., 24 Thorndike St., Cambridge, Mass.

1. AR-2a, mahogany or birch \$122.00
2. AR-2, mahogany or birch 96.00

ALTEC

• Model 831A "Capistrano." The elegant simplicity of the Capistrano, selected for its excellence of design in the California Design exhibit, is an ideal complement to the precision-engineering sound components it encloses. The Capistrano is equally appealing to the decorator and the audiophile.

Specifications: Type of enclosure, reflex; speakers—1 l.f., 1 h.f. on horn; power handling capacity 30 watts; impedance 16 ohms; frequency response from 35 to 22,000 cps. Dimensions: 47" wide, 30" high, 23 1/2" deep; 120 lbs.; finishes available and prices: walnut, mahogany \$399.00. Altec Lansing Corporation, 1515 S. Manchester Ave., Anaheim, Calif.

1. 830A "The Laguna"—2 woofers, h.f. horn \$599.00
2. 832A "The Corona"—cor spkr, similar to "Capistrano" 399.00
3. 833A "The Verde"—with 602B "Duplex" spkr 309.00
4. 700B "The Melodist"—2-spkr bookshelf 126.00

ARGOS

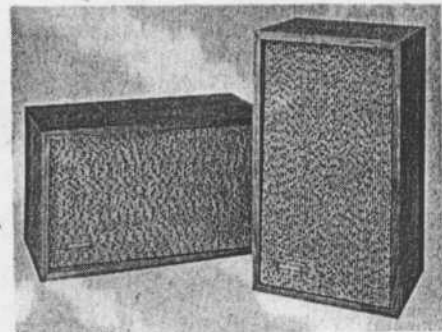
• PHF-18 Petite. The Petite is a very small, slim profile (only 3 3/4" deep) two-speaker system. It incorporates a new Jensen high-compliance woofer, designed especially for Argos. The Petite may be used anywhere—shelf, table, wall, or floor. Construction is of 3/4" hand rubbed oiled walnut with cane grill cloth.

Specifications: speakers 1 l.f., 1 h.f.; power handling capacity 10 watts; type of crossover network capacitor; impedance 8 ohms; frequency response ± 5 db from 50 to 15,000 cps; other features volume control, hanger brackets for wall, solid brass attachable legs. Dimensions: 18" wide, 12" high, 3 3/4" deep; weight, 8 1/2 lbs.; finishes available and prices: hand rubbed oiled walnut, \$24.95; Argos Products Co., 301 Main Street, Genoa, Illinois.

1. TSE-1S 2-speaker shelf, fabric covered \$24.95
2. TSE-2AS 2-speaker shelf, oiled walnut 39.95
3. TSE-3AS 3-speaker shelf, fabric covered 39.95
4. TSE-4AS 3-speaker shelf, oiled walnut 59.95

AUDIO-TECH

• ME-12 Loudspeaker System. This unit has a continuously adjustable tweeter output from zero to maximum. Color coded binding posts for easy stereo connection. Guaranteed for 2 years against defective materials and for workmanship.

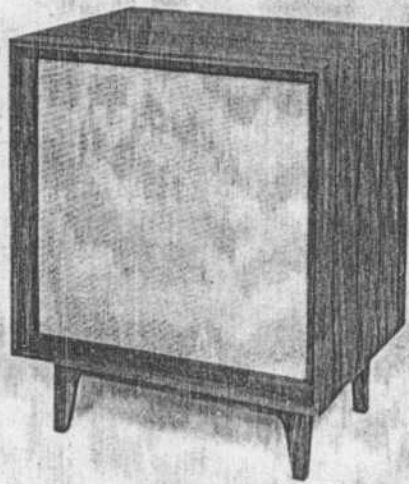


Specifications: Type of enclosure infinite baffle; speakers 12" l.f., 3" h.f.; power handling capacity 30 watts; type of crossover network, capacitor; impedance 16 ohms; frequency response from 40 to 20,000 cps; magnet weights: l.f. 32 oz.; h.f. 1.47 oz.; voice coil diameters: l.f., 2"; h.f. 1 1/2"; other features fused to protect against overload. Dimensions: 14" wide, 24" high, 12" deep; weight, 35 lbs.; finishes available and prices: hand rubbed oiled walnut, \$129.00. Audio Tech Laboratories, 3420 Newkirk Avenue, Brooklyn, N. Y.

1. JA-15 loudspeaker system \$250.00

BOZAK

• B-302A Urban Speaker System. Although small in size, the Bozak B-302A possesses the same musical sensitivity featured by all Bozak speaker systems. It is ideal for small listening rooms or in pairs for stereo. The B-302A contains one Bozak 207A two-way speaker, one B-209A midrange speaker and one 10102 crossover network to provide crossover at 875 cps.



Specifications: Type of enclosure infinite baffle; speakers one l.f., one m.f., two h.f.; power handling capacity 20-60 watts; type of crossover network three-way LC, 6 db/octave at 800 and 2500 cps; impedance 8 ohms; frequency response ± 3 db from 40 to 20,000 cps; magnet weights: l.f., 2 1/2 oz.; m.f., 2 1/2 oz.; h.f., 16 oz.; voice-coil diameters: l.f., 1 1/2" m.f., 1 1/2" h.f. 3/4"; other features full three-way speaker system in fine furniture cabinet. Dimensions: 2 1/2" wide, 30" high, 20" deep; weight 80 lbs.; finishes available and prices: walnut, mahogany, ebony \$254.50; French Provincial cherry \$290.00. Accessories: C-305U matching equipment cabinet \$285.00. R. T. Bozak Mfg. Co., P.O. Box 1166, Darien, Conn.

1. B-305 Urban speaker system \$397.50
2. B-305 Provincial speaker system ... 440.00
3. B-4000 speaker system 495.00
4. B-310A speaker system 770.00
5. B-3001 small two-way speaker system 174.50

CABINART

• **Mark 3.** An S" extended-range loudspeaker system using bass reflex principle of operation with a unique horn coupling to the air. This principle enables the total back radiation to be effectively used thus maintaining critical damping while increasing the bass response.

Specifications: Type of enclosure bass reflex-horn; speakers 8" l.f. power handling capacity 10 watts; impedance 8 ohms; frequency response ± 7 db from 70 to 19,000 cps; sensitivity (watts input for +85-db level 10 feet on axis) 1/4 watt; magnet weights; l.f. 6.8 oz.; voice coil diameters; l.f., 1"; other features 3" whizzer cone, resonant frequency of speaker (free air) 65 cps, dual-diameter Alnico 5 magnet. Dimensions: 23" wide, 11" high, 9 1/2" deep; weight, 27 lbs.; finishes available and prices: unfinished \$18.00; oiled walnut \$30.00. Cabinart Acoustical Dev. Corp., 34 Geyer St., Haledon, N. J.

DUKANE

• **Ionovac Speaker System.** Utilizing ionized air instead of the conventional speaker diaphragm for converting electrical pulsations into sound, the "Ionovac" high-frequency speakers are available either separately or as part of a complete speaker system such as the Duke-20 full-range system shown. Heart of the speaker is a small open-end quartz cell, no larger than the eraser on a pencil, in which air is confined in a chamber which narrows down to a tiny aperture. Within the small space air molecules are bombarded with a high-frequency, high-voltage current which knocks sufficient electrons free to ionize the air. The ionic cloud is modulated by signals from the amplifier and is then fed into a small horn which delivers them efficiently to the room as sound waves. The "Ionovac" has a frequency range from 3500 to 20,000 cps. The Duke-20 includes two midrange speakers and a 12-in. high-compliance woofer in addition to the "Ionovac." Dukane Corp., St. Charles, Ill. User net price \$187.50.

1. Duke-10 tweeter\$ 79.50
2. Duke-30 wide-range system 199.50
3. Duke-40 wide-range system 149.50
4. Duke-50 bookshelf system 139.50

EICO

• **HFS-5 2-Way Speaker System.** The Model HFS-5 provides fine bass from a bookshelf-size enclosure. It is a two-way system including an 8" bellows-suspension woofer and a 3 1/2" closed-back tweeter. Frequency division is accomplished by a high-pass capacitor filter at 2000 cps; a level control is provided for the tweeter.

The enclosure is constructed of 3/4" stock and is tuned to 45 cps by a tubular ducted port. A system Q of 1/2 means that the speaker is critically damped when used with any modern amplifier of normal damping factor (7-20). Critical damping gives the smoothest possible frequency response and the best transient response.

Specifications: Type of enclosure ducted-port reflex; speakers 8" l.f., 3 1/2" h.f.; power handling capacity 25 watts; type of crossover network bridging capacitor and h.f. level control; impedance 16 ohms; frequency response ± 5 db from 52 to 14,000 cps; magnet weights: l.f. 10.7 oz.; h.f., 1.47 oz.; voice coil diameters: l.f. 2"; h.f. 1/2"; dimensions: 12 1/2" wide, 2 1/2" high, 10" deep; finishes available and prices: unfinished birch \$47.50 kit, \$56.50, wired; oiled walnut \$59.50 kit, \$69.50 wired. Electronic Instrument Co., Inc., 3300 Northern Blvd., L.I.C., N. Y.

ELECTRO-VOICE

• **Regina Ultra-Compact System.** The Regina was developed in answer to the demand of discriminating listeners for a system with minimum depth. This thin speaker is made possible by a refinement of E-V wide-range, low resonance systems. Less than six inches in depth, the Regina delivers performance equal to that of larger systems and may be used with the E-V Leyton depending upon the requirements of the room setting.

Specifications: Speakers 10" l.f. 5" h.f.; power handling capacity 20 watts; impedance 8 ohms; frequency response from 50 to 15,000 cps; EIA sensitivity 43 db; magnet weights: l.f. 22 oz. Dimensions: 16 3/4" wide, 2 1/2" high, 5 1/2" deep; weight, 22 lbs.; finishes available and prices: oiled walnut, \$89.50. Electro-Voice, Inc., Buchanan, Michigan.

1. Princess, 2-way system, walnut ... \$ 53.00
2. Leyton, 2-way system, walnut 89.50
3. Esquire, 3-way system, walnut 136.00
4. Regal, 3-way system, walnut 179.00
5. Royal, 3-way system, walnut 249.50

EMI

• **EMI Model DLS 529 Bookshelf Loudspeaker System.** The Model DLS 529 features a hand-made 13 1/2" x 8 3/4" elliptical woofer with patented aluminum cone and plastic suspension and two 3 1/2" high-frequency units with hand-made curvatures. The 3/4" thick hardwood cabinet has specially treated internal damping to eliminate cabinet resonances, standing waves, or any other parasitic vibrations. In genuine figured walnut veneer and handsome, practical metal grille.

Specifications: Type of enclosure sealed; speakers one l.f., two h.f.; power handling capacity 15 watts; crossover 4500 cps; impedance 4 ohms; frequency response from 40 to 15,000 cps. Dimensions: 13" wide, 2 1/2" high, 12 1/4" deep; weight, 50 lbs.; finishes available and prices: oil and satin walnut, \$159.00. Scope Electronics Corp., 10 Columbus Circle, New York, N. Y.

ERA DYNAMICS

• **"Minnie" Bi-Phonic Coupler.** A miniature version of the bi-phonic coupler speaker system wherein the front panel (wood) is used as the cone of the woofer.

Specifications: Type of enclosure bi-phonic; speakers, 1, l.f., 1 h.f.; power handling capacity 20 watts; type of crossover network LC; impedance 8 ohms; frequency response ± 3 db from 35 to 20 k cps; magnet weights: l.f., 10 oz.; h.f. 1.47 oz.; voice coil diameters: l.f. 1" h.f., 3/8"; dimensions: 13 3/8" wide, 18" high, 2" deep; weight 5 1/2 lbs. Price

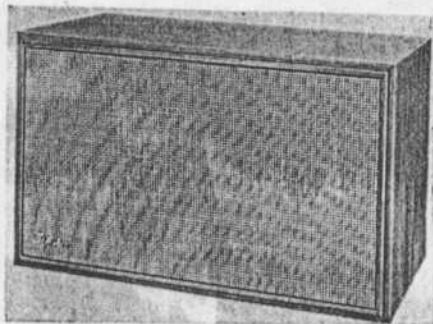
\$60.00. ERA Dynamics Inc., 67 Factory Place, Cedar Grove, N. J.

1. Wafaire, Bi-Phonic Coupler\$ 80.50
2. 440, Bi-Phonic coupler, walnut 134.40

FISHER

• **Model XP-4A Bookshelf Speaker System.** The XP-4A is a four-speaker, three-way system of bookshelf size requiring only 10 watts of amplifier power to give full volume in the average room.

Specifications: Type of enclosure high resistance ducted port; speakers—12" l.f. (2) 5" m.f., hemispherical h.f.; power handling capacity 60 watts; type of crossover network LC; impedance 8 ohms; frequency response



from 28 to over 20,000 cps; magnet weights; l.f., 22 1/2 oz. m.f., 3 1/2 oz.; h.f. 17 oz.; voice coil diameters: l.f., 2" m.f., 1" h.f., 2"; other features—unit construction eliminates need for metal speaker frame. Also features self-damping long-travel bass speaker. Dimensions: 24 1/2" wide, 14" high, 12 1/2" deep; weight, 50 lbs.; finishes available and prices: mahogany, walnut, cherry, \$199.50. Unstained birch \$189.50. Accessories: LE-1 Univ. Base \$9.95. Fisher Radio Corp., 21-21 44th Drive, L.I.C., N. Y.

1. XP-1A, 3-way speaker system, mah. \$129.50
2. XP-2A, 3-way speaker system, mah. 84.50
3. KS-1, 3-way speaker system kit, unfinished walnut 64.50

GOODMANS

• **Model G-5 "Dekorator" Cabinet System.** The Model G-5 is a 5-speaker 4-way system. Employs the new 12" Superfoam Floating Piston Cone, which has sufficient stiffness and added mechanical resistance to provide uniform response within the woofer range of 20 to 2000 cps. Crossing over at 500 cps, a heavy-duty 8" closed-back free-edged speaker handles the frequencies from 500 to 2500 cps. Two new heavy-duty shielded closed-back 3 1/2" tweeters uniformly re-enforce the mid-range from 2500 to 7500 cps. The new hemispherical dome-lens omnidirectional compression ultra-high-frequency horn tweeter takes over to handle frequencies from 7500 up.

Specifications: Type of enclosure infinite baffle; speakers—1 l.f., 1 m.f., 3 h.f., power handling capacity 60 watts; impedance 16 ohms; frequency response ± 8 db from 30 to 20,000 cps; sensitivity (watts input for +85-db level 10 feet on axis) 1/4 watt; magnet weights: l.f., 1 3/4 lbs.; m.f., 1/2 lb.; h.f., 11 oz.; voice coil diameters: l.f., 3"; m.f., 1"; h.f., 1". Dimensions: 20" wide, 28" high, 6 3/4" deep; weight, 60 lbs.; finishes available and prices: oiled walnut, \$139.50. Rockbar Corp., 650 Halstead Ave., Mamaroneck, N. Y.

1. G-1, three-speaker system, 30 watts. \$56.50
2. G-2, three-speaker system, 40 watts. 59.50
3. G-3, five-speaker system, 45 watts .. 79.50
4. G-4, five-speaker system, 60 watts .. 89.50

HARTLEY

• **Hartley-Luth Holton Type "B".** A fine furniture type of enclosure featuring, as in all Hartley cabinets, the Soundsorber for acoustic treatment of the rear wave and cabinet resonance. Front grille of Ralfla for transparent sound. Total materials used for Soundsorber over 70 square feet. For the modern or contemporary home. Type "A" for the traditional or conservative surrounding. Utilizes any of the full-range Hartley speakers. No crossovers or networks needed.

Specifications: Type of enclosure infinite; power handling capacity 25 watts; type of crossover network, none; impedance 8 ohms; frequency response ± 3 db from 20 to 20,000 cps; magnet weights, 5 3/4 lbs. Dimensions: 2 1/4" wide, 3 1/4" high, 13" deep; weight, 80 lbs.; finishes available and prices: oil walnut, mah, \$245.00. Hartley Products Co., Inc., 521 E. 162 St., New York 51, N. Y.

- Hartley-Luth Holton style "A" with 220MS spkr\$245.00
- Hartley-Luth Holton style A or B w. 312 spkr 215.00
- Hartley-Luth Holton style A or B w. 310 spkr 195.00
- Holton Jr. oiled walnut w. 220MS spkr 195.00
- Holton Jr. oiled walnut w. 312 spkr. 155.00

HEATH

• **Model AS-22 "Profile" Speaker System.** "Profile" is a slim new Heathkit 3-way system speaker—just 5 in. deep. Versatile in performance, it uses a special 10-in. woofer of inverted design, plus a 6-in. midrange and a 3 1/2-in. tweeter with closed backs for perfectly balanced, natural sound. Factory assembled cabinets are available in walnut finish or in unfinished white hardwood suitable for the finish of your choice.

Specifications: Type of enclosure, tubed; speakers, 10" l.f., 6" m.f., 3 1/2" h.f.; power handling capacity, 25 watts; type of crossover network, series capacitor; freq. resp. ± 5 db from 55 to 12,500 cps; magnet weights—l.f., 16.1 oz.; m.f., 2.16 oz.; h.f. 2.15 oz.; voice coil diameters—l.f. 2"; m.f., 3/4"; h.f., 9/16"; factory assembled cabinets of 3/4" furniture-grade plywood. Dimensions: 19 1/2" wide, 25" high, 5" deep; weight, 31 lbs.; AS-22U, unfin. white hardwood, \$49.95; AS-22W walnut, \$54.95. Heath Company, Benton Harbor, Mich.

- AS-81 miniature speaker sys\$ 17.50
- AS-51 speaker sys 39.95
- Acoustic suspension speaker sys 59.95
- "Legato Compact" deluxe speaker sys 239.95

IMF

• **IMF Styrene-Pressure Loudspeaker System.** Uses polystyrene mass cone for accuracy in a dynamic loudspeaker. Treble handled by phase-loaded pressure unit, providing very wide dispersion and smooth response.

Specifications: Type of enclosure resistive loaded; speakers—1 l.f., 1 h.f.; power handling capacity 30 watts; type of crossover network capacitive; impedance 16 ohms; frequency response from 25 to 16k cps. Dimensions: 16 1/2" wide, 26 1/2" high, 11 1/2" deep; weight, 30 lbs., approx.; finishes available and prices: oiled walnut \$200.00. Others to be announced. Lectronics of City Line Center, 7644 City Line Ave., Philadelphia, Pa.

- IMF ribbon speaker system\$190.00
- IMF Standard-Pressure system 90.00
- IMF-Radford System 500.00
- IMF Orthophase (price to be announced)

ISOTONE

• **EROICA.** Continuously-folded, extended, air column with constant-impedance air-mass loading.

Specifications: Type of enclosure 3-way patented; speakers—12" l.f. 8" m.f., compression h.f.; power handling capacity 40 watts; impedance 8 ohms; frequency response ± 2 db from 30 to 16,000 cps; magnet weights: l.f., 80 oz.; m.f., 2 1/2 oz.; h.f., normal oz.; voice coil diameters: l.f., 1 1/2"; m.f., 1"; other features pneumatically controlled transducer assembly action.

Dimensions: 15" wide, 40" high, 22" deep; weight, 140 lbs.; finishes available and prices: oiled oak, mahogany \$299.00. Isotone Associates, 3402 34th Ave., New York 56, N. Y.

- "Cellini," 2-spkr, 1 cu. ft.\$ 65.00
- "Egmont," 2-spkr, 2 cu. ft.110.00

JANSZEN

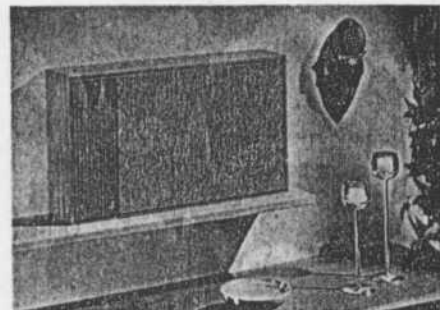
• **Z-500 Speaker System.** The Z-500 uses the well-known Janszen Electrostatic mid/high-range tweeter in a single-radiator version that reduces cost and cabinet size. The electrostatic tweeter is acoustically paired in the Z-500 with a special 11-in. Model 350A dynamic woofer. Frequency range from 30

to 30,000 cps. Dimensions, 24 3/4" wide, 13 1/2" high, 11 1/2" deep. Available in walnut, mahogany, and birch, \$124.95. Neshaminy Electronic Corp., Neshaminy, Pa.

JENSEN

• **TR-9 Slim 3-way Loudspeaker System.** This new Jensen speaker system has slim proportioning and will adapt to almost any decor.

Specifications: Type of enclosure, ducted port; speakers—10" l.f., 8" m.f., dome h.f. power handling capacity, 25 watts; impedance, 8 ohms; frequency response from 30 cps to



beyond audibility. Dimensions, 23 3/4" wide, 13 1/2" high, 5 1/2" deep; weight, 25 lbs.; finish available, walnut. Price, \$89.95. Jensen Manufacturing Company, 6601 S. Laramie Ave., Chicago 38, Ill.

- 3-P, 4-way sys ..\$119.50, \$139.50, \$159.50
- TF-3, 4-speaker 3-way sys, walnut .. 99.50
- TF-2, unfinished 3-speaker 2-way sys 64.50
- X-20, 3-speaker 2-way sys 39.95
- X-10, 2-way sys 29.75

KLH

• **Model Six Compact Loudspeaker System.** Combining an acoustic suspension woofer of unusual design, in which the frame and magnet assembly become integral with the baffle panel, with a tweeter comprising a thin Bakelitized diaphragm with a maximum excursion of 1/16 in., the over-all performance belies the small size of the enclosure.

Specifications: Type of enclosure, acoustic suspension; speaker, 1 l.f., 1 h.f.; power handling capacity, 75 watts; type of crossover network, L-C; impedance, 8 ohms; freq. resp. 32 to 16,000 cps; crossover point, 1500 cps; dimensions: 23 1/2" high, 12 3/4" wide, 11 1/2" deep, weight, 35 lbs. Available in mahogany, \$129.00; oiled walnut, \$134.00; unfinished, \$119.00. KLH Research and Development Corp., 30 Cross St., Cambridge 39, Mass.

- Model 7, 2.6 cu. ft. spkr sys\$189.00 to \$196.00
- Model 10, similar to Mod. 6, thinner 86.00 to 94.00

KLIPSCH

• **KB-100 Klipschorn.** A horn is a different structure and serves a different purpose than an enclosure. The Klipschorn is thus distinct from an enclosure in that the diaphragms are loaded for lower distortion, higher acoustic output, and more nearly perfect transient response.

Specifications: Type, 3-way horn; speakers—15" l.f. compression m.f. and h.f.; power capacity, 3 acoustic watts output for 0.1% maximum FM distortion; crossover network, balancing; impedance, 16 ohms; frequency response, ± 5 db from 30 to 19,000 cps; sensitivity (watts input for +85-db level 10 feet on axis), approx. 0.1 watts; dimensions, 31" wide, 51" high, 29" deep; weight, 170 lbs., available in mahogany, walnut, and maple, \$852.00; unfinished fir, \$514.00. Klipsch and Associates, Hope, Arkansas.

- Cornwall, 3-way speaker sys.\$408.00
- Model H, 3-way speaker sys 221.00

LAFAYETTE

• **"Elliptoflex" Enclosure with SK-58 Speaker.** The Elliptoflex enclosure is a ducted port system wherein the port is elliptical in shape and is located directly in front of the speaker. This unique system is designed to improve

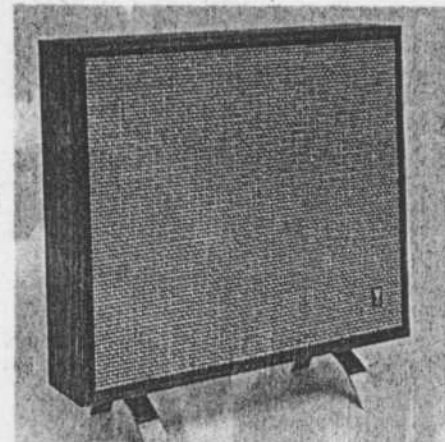
low-frequency response by providing a smooth transition from front to rear (cone) radiation.

Specifications: Type of enclosure ducted port; speakers—12" l.f., 3" h.f.; power handling capacity 20 watts; type of crossover network LO; impedance 8 ohms; frequency response from 40 to 15,000 cps; magnet weights: l.f., 20 oz. Dimensions: 23 7/16" wide, 14" high, 13 5/16" deep; weight, 35 lbs.; finishes available and prices: mahogany, walnut, blonde \$64.50; oil walnut, unfin. birch \$59.50. Lafayette Radio Electronics, 111 Jericho Turnpike, Syosset, L. I., N. Y.

- Elliptoflex with SK-210 spkr\$82.50
- Elliptoflex with SK-180 spkr 66.50

JBL

• **Trimline 54 Speaker System.** The JBL Trimline 54 couples the LEST speaker and an 8" woofer to a new enclosure. The new enclosure is designed to double the effective radiating area at low frequencies. The 54 is of the new thin speaker genre and may be free standing or hung from a wall. Hanging brackets are provided. The enclosure is finished on four sides and may be used either vertically or horizontally.



Specifications: Type of enclosure reflex; speakers—8" l.f., 8" m.f./h.f.; power handling capacity 25 watts; impedance 8 ohms; magnet weights: l.f., 6 1/4 lbs.; voice coil diameters: l.f., 2". Dimensions: 23 3/4" wide, 20" high, 5 1/2" deep; weight, 29 lbs.; finishes available and prices: walnut, mahogany, ebony \$117.00. Accessories: solid brass legs (pair) \$12.00. James B. Lansing Sound, Inc., 3249 Casitas Ave., Los Angeles, Calif.

- Lancer 33\$ 93.00
- Lancer 66 147.00

LEAK

• **"Piston-Action" Sandwich Speaker System.** The Leak piston-action speaker system is a new concept in speaker design. The cone is polyfoam which is given 200 times the structural strength by a "sandwich" of aluminum skins. It thus behaves in the manner of the theoretical piston.

Specifications: Type of enclosure sealed; speakers 1 l.f., 1 h.f.; power handling capacity 50 watts; type of crossover network (2) 1/2-sections with additional elements on tweeter; impedance 15 ohms; frequency response ± 2.5 db from 30 to 18,500 cps; voice coil diameters: m.f., 2"; h.f. 1"; other features: special 13" polyfoam girder construction sandwich cone eliminates breakup distortions. Dimensions: 15" wide, 26" high, 12" deep; weight, 49 lbs.; finishes available and prices: Scandinavian walnut, \$199.00. Ercona Corp., 16 W. 46th Street, New York, N. Y.

MONARCH

• **Controlled-Resonance 2-way System.** This small cabinet size is made possible by the use of the "controlled resonance" principle employing plastic tubes of varied lengths and shapes to reduce unwanted resonance to inaudible levels. The cabinet is finished on four sides, and is fitted with a tweeter control.

Specifications: Type of enclosure ducted reflex; speakers—1 l.f., 2 h.f.; power handling capacity 30 watts; impedance 16 ohms; fre-

quency response 25 to 18,000 cps. Dimensions: 23½" wide, 14" high, 11¾" deep. Finished in Swedish walnut, \$69.95. Monarch Electronics International, Inc., North Hollywood, California.

1. SP-CR1 deluxe controlled-resonance 3-way sys \$84.95
2. SP-SOC 8-in. plus tweeter, 2-way sys. 49.95

NORDIC

• **Nordic 1 Speaker System.** Compact, high-frequency design with clean response. Features patented 8" speaker with multi-layer free-floating cone; distortion 1%, 100-10k cps, 1.5% 10k-15k cps.

Specifications: Type of enclosure *bookshelf*; speakers 8" l.f.; 5" h.f.; power handling capacity 20 music power watts; impedance 8 ohms; frequency response from 45 to 18,000 cps. Dimensions: 22¾" wide, 10¾" high, 7½" deep; weight 18¼ lbs. Finishes available and prices: *Scandinavian walnut or teak, \$59.50. Ercona Corp., 16 W. 46th St., New York 36, N. Y.*

PILOT

• **PSV-4 3-Way Speaker System.** This three-way bookshelf speaker system is a handsome addition to any room. The solid bass response is produced by a 12" Air Flex heavy-duty woofer which is front mounted in an Orion fiber-filled enclosure designed to yield maximum performance. Two 3½" cone-type speakers produce the crisp mid-frequencies. High frequencies are produced by a specially designed super tweeter. This four-speaker combination, plus a crossover network, gives unparalleled performance.

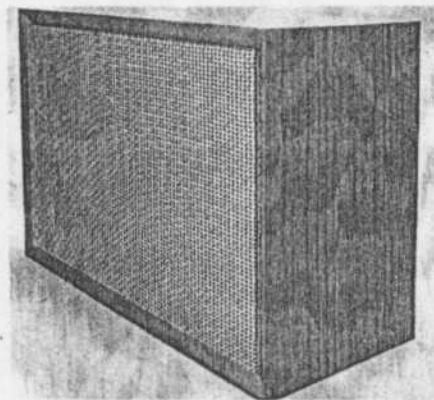
Specifications: Type of enclosure *infinite baffle*; speakers—12" l.f., (2) 3½" m.f., 3½" h.f.; power handling capacity 30 watts; type of crossover network(s) *air core inductor-capacitance, 6-db/octave*; impedance, 8 ohms; frequency response ± 6 db from 40 to 16,000 cps; magnet weights: l.f., 27 oz.; m.f., 1.47 oz.; h.f., 1.47 oz.; voice coil diameters: l.f., 2½"; m.f., ¾"; h.f., ¾"; other features *mid-range and tweeter level controls, finished on 4 sides*. Dimensions: 25¾" wide, 14½" high, 12" deep; weight 42 lbs.; finishes available and prices: *lacquered walnut, oiled walnut, mahogany, \$119.50. Pilot Radio Corp., 37-06 36th St., New York, N. Y.*

1. PSV-2 \$69.50
2. PSV-3 64.50

PIONEER

• **CS-30 A Bookshelf Speaker System.** A compact 2-way speaker system which is appropriate for stereo in today's compact home.

Specifications: Type of enclosure *bookshelf*; speakers—12" l.f., 2 2.5" h.f.; power handling capacity 20 watts; type of crossover network *C-type attenuation 6 db/octave*; im-



pedance 16 ohms; frequency response ± 7.5 db from 60 to 18,000 cps; sensitivity (watts input for +85-db level 10 feet on axis) 0.3 watts; magnet weights: l.f., 2½ oz.; h.f., 2 x 2 oz.; voice coil diameters: l.f., 1 15/16" h.f., ¾". Dimensions: 23½" wide, 16½" high, 10¾" deep; weight, 34.2 lbs.; finishes available: *Teak. Pioneer Electronic Corp., 5 Otowacho 6-chome, Bunkyo-ku, Tokyo, Japan.*

1. CS-20 A, 8-inch 2-way speaker

2. CS-20 B, 8-inch coaxial speaker
3. CS-16 A, 6½-inch mechanical 2-way speaker
4. CS-183, Woofer 3¼-inch, tweeter 2¾-inch

QUAD

• **Full-Range Electrostatic Speaker.** Perhaps the first full-range electrostatic speaker in the world, this speaker may herald the future for the industry. Completely free-standing and non-critical as to placement, it radiates from both sides in a figure-eight pattern which minimizes reflections from the walls and ceiling. Frequency range of the speaker is 45 to 18,000 cps and its impedance is 16 ohms. Dimensions are 31" high, 34½" wide, 10½" deep at bottom. Manufactured in England, exclusive United States distributor is *Electronics of City Line Center, 7644 City Line Ave., Philadelphia 31, Pa.* User net price, \$345.00.

RAVENSWOOD

• **M-S Reflection Coupler.*** One of a series of loudspeaker systems which depend upon the wall surface behind the speaker to distribute sound waves so that they appear to originate at a point somewhere beyond the wall. The new Dynamic Port Phase Inverter* principle provides a form of variable damping which is unique and extremely effective in controlling speaker and cabinet resonances and adapting the entire system to room environments.

Specifications: Type of enclosure, *Dynamic Port Phase Inverter*; speakers—2 l.f., 1 m.f., 1 h.f.; power handling capacity 50 watts; type of crossover network *half-section m-derived*; impedance 8 ohms; magnet weights: l.f., 27 oz.; m.f., 10 oz.; h.f., 1.45 oz.; voice coil diameters: l.f., 1½"; m.f., 1"; h.f., 9/16"; other features *variable damping*. Dimensions: 31" wide, 16" high, 7" deep. Finishes available and prices: *walnut \$144.95; unfinished \$124.95. RAVENSWOOD, Edgewood & McGuckian Sta., Annapolis, Md.*

1. M-9 Reflection Coupler, bookshelf \$124.95-\$149.95
2. M-7 Reflection Coupler, 3-8", 1-3½" 74.95- 84.95
3. M-6 Reflection Coupler, 2-8", 1-3½" 49.95- 55.95

REALISTIC

• **Electrostat Two-Speaker System.** An electrostatic high-frequency unit combined with a cone-type woofer.

Specifications: Type of enclosure *acoustic suspension*; speakers 1 l.f., (4) *electrostatic elements* h.f.; power handling capacity 20 watts; type of crossover network *LC*; impedance 8 ohms; frequency response from 45 to 25,000 cps; voice coil diameters: l.f., 1"; other features *power for electrostatic tweeters derived from power line, a.c. switch furnished, Has tweeter level control*. Dimensions: 13" wide, 22½" high 12" deep; weight, 27 lbs.; finishes available and prices: *mahogany \$59.95; oiled walnut and teakwood \$62.95. Radio Shack, 730 Commonwealth Ave., Boston 17, Mass.*

1. Electrostat 5, oiled walnut \$49.95
2. Electrostat 4A Mahogany 84.95

REK-O-KUT

• **Sonoteer Speaker System.** A series of high style, 5-speaker, 3-way systems in fine furniture cabinets featuring figure eight radiation pattern from front and rear. Available in contemporary, provincial, and modern styles, in walnut, fruitwood, and ebony finishes respectively.

Specifications: Type of enclosure *slimline*; speakers—2 l.f., 2 m.f., 1 h.f.; power handling capacity 45 watts; type of crossover network *filter network*; impedance 8 ohms; frequency response +3-6 db from 40 to 18,000 cps; sensitivity (watts input for +85-db level 10 feet on axis) 0.20 watts (at 500 cps); magnet weights: l.f., 6.2 oz.; m.f., 6.2 oz.; h.f., 2.5 oz.; voice coil diameters: l.f., 1"; m.f., 1"; h.f., ¾"; dimensions: 21" wide, 24" high, 4" deep; weight, 18 lbs.; finishes available and prices: *solid walnut \$79.95; fruitwood, ebony \$89.15. Rek-O-Kut Co., Inc., 38-19 108th St., Corona 08, N. Y.*

1. CA 60, bookshelf 3-spkr sys, wal ... \$59.95

THE RUS LANG

• **Rus-Lang 1+2 Speaker System.** Flexible cabinet end panels (bass resonators) constructed of stiff laminated materials and mounted on sponge rubber surrounds are utilized to extend low-frequency response with an 8 db gain over conventional enclosures of the same size. This is achieved by utilizing the back-wave energy of the speaker itself, the net result being an over-all improvement in system efficiency while retaining the convenience of compact design. This allows for drastic reduction in size of cabinet and produces a low-cost speaker system equal in quality and tone to costlier systems.

Specifications: Type of enclosure *infinite baffle*; speakers—8"; power handling capacity 20 watts; type of crossover networks *none*; impedance 8 ohms; frequency response ± 8.4 db from 40 to 14,000; magnet weight: 6.8 oz.; voice coil diameter: 1"; dimensions: 18" wide, 9¾" high, 9½" deep; weight, 14 lbs.; finishes available and prices: *oiled walnut \$34.95. Rus Lang Corp., 138 Hand Ave., Bridgeport 4, Conn.*

H. H. SCOTT

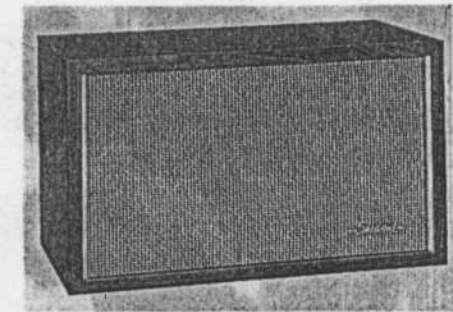
• **S-3, 3-way Loudspeaker System.** Only 9¾" deep, it is of true bookshelf size. The S-3 consists of a 10" low-resonance high-exursion woofer, and separate wide-dispersion mid-range and tweeter units, all contained within a strikingly handsome cabinet. The 3-way crossover network blends the separate speakers into a single sound source. Testing techniques pioneered by H. H. Scott assure virtually ideal matching from speaker to speaker for exact stereo balance.

Specifications: Type of enclosure *bookshelf*; speakers—10" l.f., 5" m.f., 1" h.f.; power handling capacity 50 watts; type of crossover network *air coil 3-way*; impedance 16 ohms; sensitivity (watts input for +85 db level 10 feet on axis) 12 watts; dimensions: 23½" wide, 11¾" high, 9¾" deep; weight, 37 lbs.; finishes available and prices: *Un. Pine \$119.95; Un. hardwood \$129.95; walnut or mahogany \$134.95. H. H. Scott, Inc., 111 Powdermill Road, Maynard, Mass.*

1. S-2, 3-way loudspeaker system from \$179.95
2. SK-4, 3-way loudspeaker system kit, unfr. pine 79.95

SHERWOOD

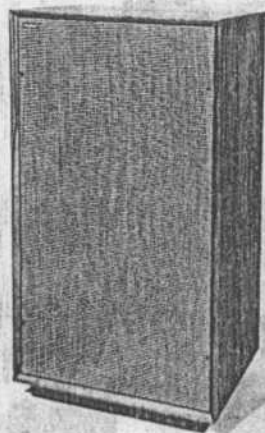
• **Ravinia 3-Way System.** The Ravinia 3-way speaker system is based on a rigidly constructed enclosure, fabricated of one-inch, solid-core veneered side walls and one-inch resin-filled flakeboard speaker baffle. A front-to-back reinforcement strut eliminates possibility of panel vibration. The grille panel is easily removable for grille-cloth replacement or access to speakers. All speakers are replaceable from the front, and the crossover network is accessible through speaker openings.



Specifications: Type of enclosure *tube port*; speakers 12" l.f., 8" m.f., 3" h.f.; power handling capacity 50 watts; type of crossover network *12-db/octave at 600 cps and 3500 cps*; impedance 16 ohms; frequency response ± 2½ db from 45 to 17,500 cps; magnet weights: l.f., 1.66 lb.; m.f., 6.8 oz.; h.f., 9.0 oz.; voice coil diameters: l.f., 1½"; m.f., 1"; h.f., 1"; other features *high-compliance woofer annulus*. Dimensions: 26¾" wide, 15" high, 13¾" deep; weight, 55 lbs.; finishes available and prices: *walnut \$139.50; birch unfr. \$129.50; fr. \$119.50. Accessories consolette legs \$19.95. Sherwood Electronic Labs, 4800 N. California Ave., Chicago 18, Ill.*

TANNOY

• "GRF" *Side-wall Horn-Loaded Enclosure and Speaker System.* The 15" 'Monitor' Dual Concentric loudspeaker forms the heart of the system, while the 'GRF' enclosure provides a compound expanding sound source, an exclusive feature first introduced in the Autograph enclosure. The effect of this is that the wave-front area varies with frequency, giving an outstanding illusion of realism to both solo and orchestral music. In addition, the system has all of the well-known advantages of horn loading, e.g. excellent bass radiation and transient response, but none of the special distribution defects associated with conventional horns of multi-speaker systems.



The low-frequency diaphragm of the 15" 'Monitor' Dual Concentric loudspeaker is rear horn loaded below 350 cycles, while between 350 and 1,000 cycles per second a new acoustic coupling device gives much improved front radiation. Above this frequency the non-directional horn-loaded high-frequency unit, which forms an integral part of the Dual Concentric loudspeaker, takes over, serving to preserve the impression of location so necessary to ensure realistic reproduction of vocal and solo instrumental music.

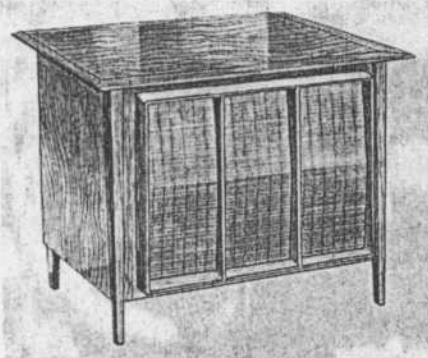
Specifications: Type of enclosure: horn; speakers: 15" 'Monitor' Dual Concentric; power handling capacity: 50 watts; type of crossover network: RLC crossover point 1000 cps; impedance: 16 ohms; frequency response: 30 to 20,000 cps, ± 3 db; efficiency, approx. 8%; magnet weight: 6½ lbs. (dual magnet); voice coil diameters: both 2". Dimensions: 23½" wide, 42" high, 17½" deep. Finishes available and prices: oiled walnut only, \$385.00. Tannoy (America) Ltd., P. O. Box 177 East Norwich, L. I., N. Y.

- 'Belvedere Senior' bass reflex; finish oiled walnut
 - 'Belvedere' bass reflex; finish oiled walnut
 - 'Dalton' infinite baffle; finish oiled walnut
 - 'Cadet' infinite baffle; finish oiled walnut
- * all enclosure prices depend upon speaker installed

UNIVERSITY

• *Classical Mark II 15" 3-Way High-Compliance Speaker System.* The Classic Mark II is the bridge between the giant mono speaker systems of yesterday and the compact bookshelf types of today. Its remarkable frequency range of from 20 to 40,000 cps is made possible by the use of University top-line components and engineering. A special, heavy duty 15" high-compliance woofer with a high energy Uniferrox-7 magnet and thick, very rigid diaphragm; a deluxe 8" high-compliance midrange with reserve excursion and power handling capacity for lowest distortion; and the famous Sphericon Super Tweeter for top end performance. All in a handsome oiled walnut cabinet compact enough to fit effortlessly into any modern environment.

Specifications: Type of enclosure: ducted port; speakers—15" l.f., 8" m.f., ¾" h.f.; power handling capacity 10-60 watts; type of crossover network 3-way L/C network



w/balance controls; impedance 8 ohms; frequency response from 20 to 40,000 cps; voice coil diameters: l.f., 2"; m.f., 2"; h.f., ¾". Dimensions: 35" wide, 28¼" high, 17½" deep weight, 98 lbs.; finishes available and prices: oiled walnut \$295.00; University Loudspeaker, Inc., 80 South Kensico Ave., White Plains, N. Y.

- Medallion XII, 12" 3-way system, walnut \$139.95

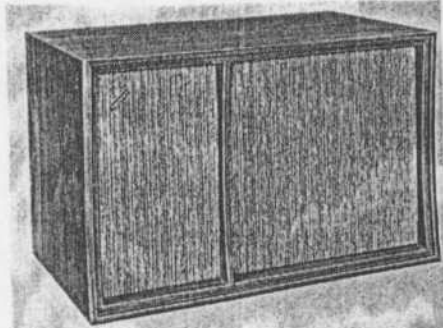
UTAH

• *SH-4 Thin Bookshelf "Sorcerer."* A handsome, compact, good-sounding speaker system. **Specifications:** Type of enclosure bass reflex; speakers—8" l.f., 3½" h.f.; power handling capacity 12 watts; type of crossover network capacitor; impedance 8 ohms; frequency response from 45 to 17,000 cps; magnet weights: 6.8 oz.; h.f., 1.47 oz.; voice coil diameters: l.f., 1", h.f., 9/16"; other features walnut veneer, extremely thin, can be wall mounted. Dimensions: 20" wide, 12" high, 4 15/16" deep; finishes available and prices: walnut \$49.95, Unfinished \$46.95. Utah Electronics Corp., Huntington, Ind.

WHARFEDALE

• *W60 Achromatic Full Range 2-Speaker System and Sand-Filled enclosure.* The original Achromatic unit. Though built to the dimensions of a "compact" system, is an integrated full-range speaker system in all respects.

Specifications: Type of enclosure sand filled ported duct; speakers 12½" l.f., 5" m.f. and h.f.; power handling capacity 60 peak watts; type of crossover network LC 1500 cps crossover; impedance 8 ohms; magnet weights: l.f. 152 oz.; m.f. and h.f. 20 oz.;



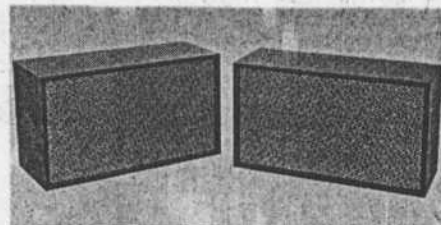
voice coil diameters: l.f. 2"; m.f. and h.f. ¾"; other features sand filled panel to eliminate cabinet resonance, wire wound "c" pad to balance high frequencies. Dimensions: 24" wide, 14¼" high, 13" deep; weight 50 lbs.; finishes available and prices: oiled and polished walnut and polished mahogany \$116.50. Polished fruitwood \$134.50. Unfinished sanded birch \$101.50. Accessories B67 Universal mounting base, finished as above \$9.95. Wharfedale Div., British Industries Corp., Port Washington, N. Y.

- W40 Full range 2-speaker system walnut and mahogany \$ 79.50
- W40 Full range 2-speaker system, unfinished sanded birch 69.50
- W70 Full range 3-speaker system, walnut and mahogany 164.50

- W70 Full range 3-speaker system, unfinished sanded birch 146.50
- W70PR Provincial full range 3-speaker system 189.50

WILDER

• *The "Playmate" Speaker System.* The Wilder "Playmate" is a 2-way speaker system in a compact enclosure finished on all sides in furniture-grade veneers.



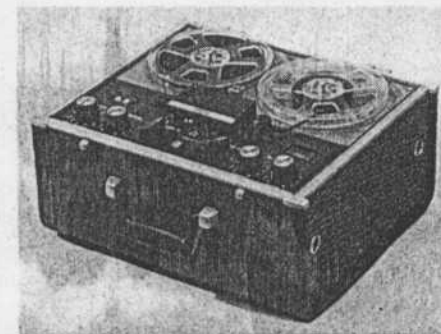
Specifications: Speakers—(2) 6" l.f., (1) 4" h.f.; power handling capacity 25 watts; input impedance 8 ohms; frequency response from 40 to 18,000 cps. Dimensions: 18" wide, 10" high, 8" deep; weight, 14 lbs.; finishes available and prices: walnut \$39.75 net. Wilder Engineering, 2013 N. Halsted St., Chicago, Ill.

- ES-81, walnut or blond \$79.75 net

TAPE RECORDERS

AMPEX

• *Tape Recorder Player, Model 1260.* A portable 4-track stereo and mono recorder player in attractive grey luggage—with record electronics and playback preamplifiers. It can be used in a fixed music system, or easily transported for on-the-spot recording or playback over one or two 2012 portable amplifier speakers. The 1260 is ideal for semi-professional recording and long-life service in education, business, theater, church or audio-visual systems.



Specifications: Speeds 7½, 3¾ ips; heads 2 ¼-track; records 4 track stereo, 4 track mono; plays 4 track stereo, 4 track mono (also half and full track mono); reel size 7 in.; no. of motors 1; timing accuracy ¼ of a half tone; freq. resp. 7½ ips, ± 2 db from 50 to 15,000 cps; 3¾ ips ± 2 db from 50 to 8000 cps; signal-to-noise ratio 55 db; wow and flutter, 0.2% at 7½ ips (measured by ASA standards), 0.3% at 3¾ ips (measured by ASA standards); rewind time, 1200 ft reel, 90 secs. Inputs 2 microphone, impedance 2 megohms, sensitivity 600 mv; 2 high level, impedance 250 k ohms, sensitivity 0.25 volts; amplifier outputs 2, type cathode follower, impedance 250 k or more ohms; Dimensions, 17½" wide, 9½" high, 14" deep; weight, 36 lbs. Other features: 3 separate heads in metal cases, micro-milled, die cast frame, auto-set shut-off. Price \$545.00. Accessories: 2012 Amplifier-Speaker \$199.50.

- Model 1250, unmounted tape deck \$499.50
- Model 1270, portable low-level amps and speakers 645.00