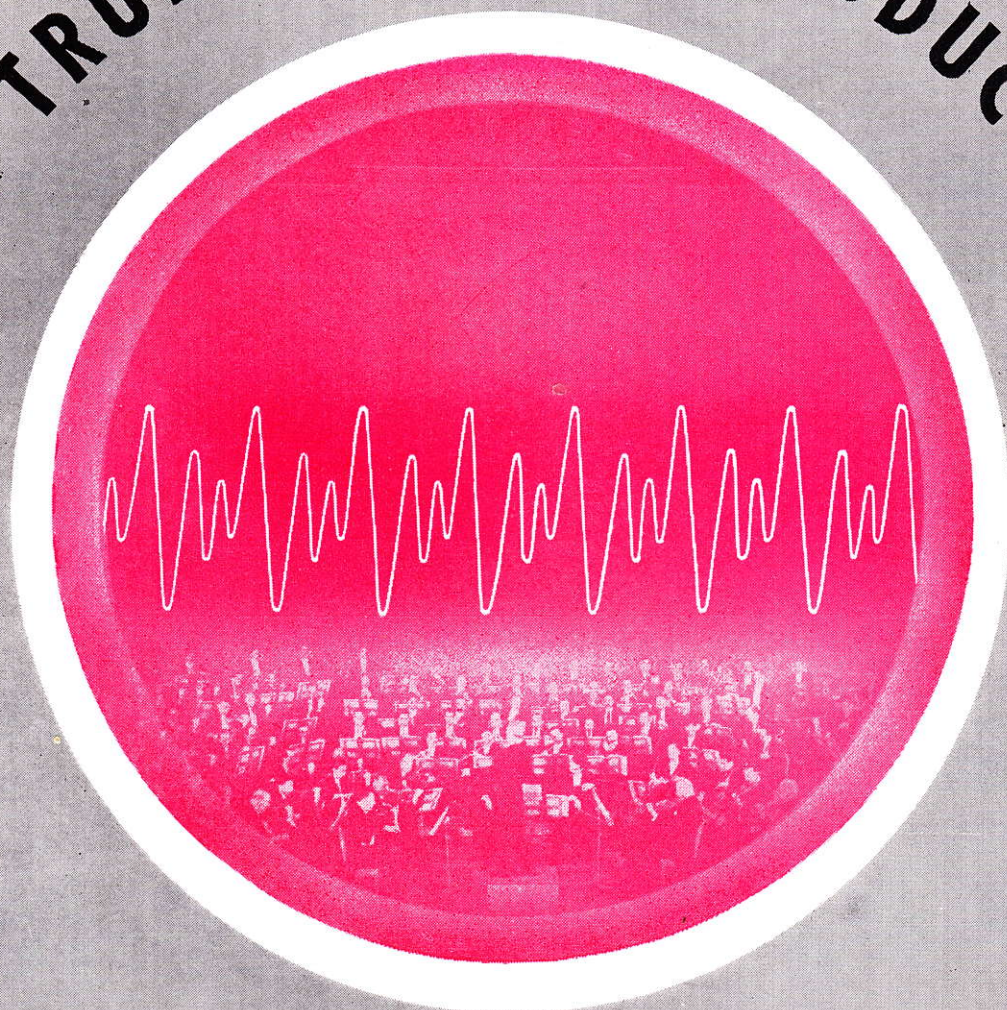


FOR TRUE SOUND REPRODUCTION



1949

*For the Best in Sound Equipment*

**TERMINAL**  
RADIO CORPORATION

85 CORTLANDT STREET  
NEW YORK 7, N. Y. — Phone: WOrth 4-3311



## The McProud Speaker Chamber

A new design for fine loudspeaker performance by C. G. McProud, eminent audio authority and Managing Editor of Audio Engineering Magazine.

The McProud corner cabinet offers two important advantages over conventional speaker enclosures — it provides a greater cubic content by utilizing space which is not normally useful in home decorating, and it is more efficient due to the smaller solid angle into which sound is radiated.

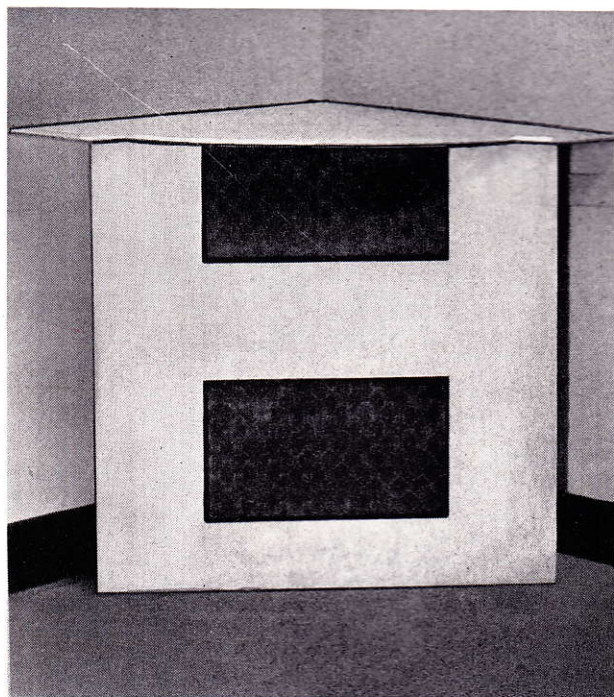
With proper choice of 15-inch speaker, effortless response to 37 cycles is easily achieved. Both the speaker and reflex ports are horn-loaded, increasing its efficiency to approximately 2 db. higher than in a standard type of reflexed enclosure. Because of the wide front — with sound issuing from the cone and the two ports along the walls — the apparent sound source is greatly enlarged. Its angular construction prevents spurious resonant vibrations. These features provide the realism of the reproduction so long sought after and now a fact with the McProud Speaker Chamber.

As offered by Terminal, the McProud Chamber is supplied in knocked-down kit form, easily assembled, with a screwdriver the only required tool. Finely grained selected hardwood veneers are used so that you may finish all surfaces to match your furniture or room decoration. All you need to do is a minor sandpaper touch-up, stain to color or apply wood finish desired. Will take high gloss or waxed finishes beautifully.

Dimensions of basic triangular shape, top view to fit into 90° corner, is 50½" across, 34" depth from front to corner of room. Height is 38½". Supplied complete with all necessary hardware and instructions for easy assembly.

McProud Speaker Chamber is available in two styles. For 2-Way Speaker Systems cut-outs are provided in panel for 15" low frequency speaker and horn type H-F tweeter. For 15" Coaxial Speaker, a single opening on front panel is provided. Please specify style desired when ordering.

**99<sup>50</sup>**



For recommended speakers, see page 5; Stephens P-52LX, 824-H, P-15 and 800X are suggested for best results. Other speakers by Altec Lansing, Cinaudagraph, Jensen, Racon, University, etc. may also be used with vastly improved performance in the McProud Speaker Chamber.

We invite you to take full advantage of our long experience with high quality equipment. All items described in this catalog are on demonstration in our Sound Studio, which is especially equipped so that you may conveniently see, listen to, compare and select the equipment to suit your needs. Terminal Radio Corp., New York's leading radio supply house, and its staff of sound experts are sincerely interested in helping you make the proper choice of coordinated equipment to insure your complete satisfaction and lasting enjoyment.

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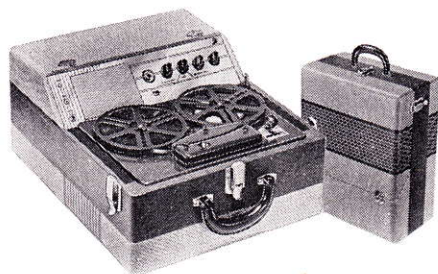
**WARRANTY** — Each item sold by the Terminal Radio Corporation carries with it the full 90 day guarantee of the Radio Manufacturers' Association.

**PRICES** — All prices are net and do not include shipping charges. A 2% cash discount has already been deducted where applicable. Prices are subject to manufacturers' authorized changes.



# MAGNETIC RECORDERS AND ACCESSORIES

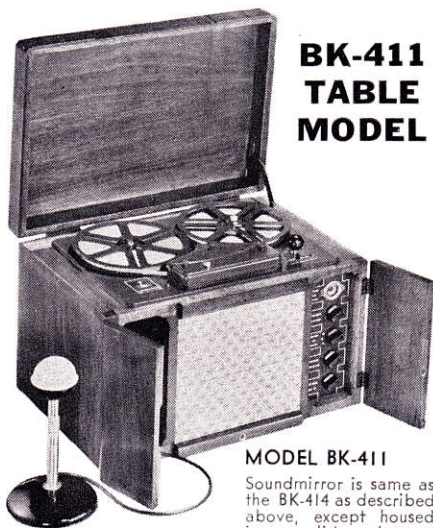
## BRUSH SOUNDMIRROR



### Portable Model BK-414 with New Simplified Control

The BK-414 Soundmirror produces high quality recordings easily and quickly. Records on standard 1/4" paper or plastic tape which can be electronically erased and used over and over again. Editing of tape is a simple matter of scissors and cellulose tape. The new single control operates REWIND — FAST FORWARD and RECORD by a simple fingertip movement. Automatic REWIND occurs at the end of the forward movement of each complete reel. Frequency response is 100 to 5,000 cps., with less than 0.3% RMS flutter. Recording time for a complete tape spool is 30 minutes; rewind time is 3 minutes; fast forward speed is 3 minutes. Input is provided for radio or phono. In addition to microphone. Supplied complete with BA-106 non-directional crystal microphone and desk stand. For operation on 110 volts, 50/60 cycles AC. Dimensions: 17 3/4 x 21 x 9 3/4 inches. Weight 37 1/2 lbs. With 1 spool tape. PRICE

**229<sup>50</sup>**



### BK-411 TABLE MODEL

Soundmirror is same as the BK-414 as described above, except housed in a solid mahogany cabinet. Designed with concealed space for microphone storage. Tone, volume and selector controls are also concealed. Dimensions: 12 1/2 x 17 1/2 x 13 3/4 inches. Weight: 36 lbs. PRICE

**229<sup>50</sup>**

### CARTER SUPER-CONVERTERS



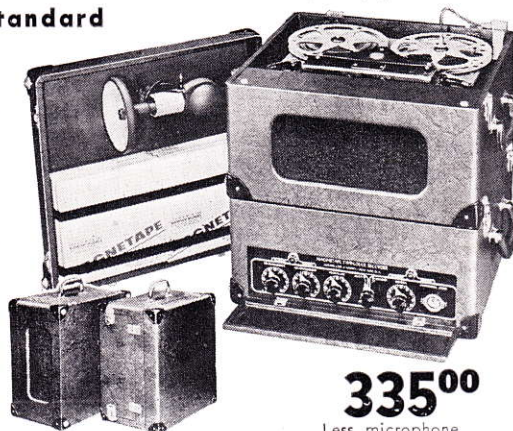
Carter Superconverters are especially made for tape and wire recorders for use when only DC current is available. No filters are needed. All models are equipped with leather carrying handles. Size 8 1/2 x 4 1/2 x 5 inches, net weight 13 lbs.

For 110 Volts DC Input, 110 Volts 60 Cycles AC Output  
D-1010CW — for Brush Soundmirror BK-414 and BK-411.....**41.16**  
D-1060CW — for Webster-Chicago 180, 81 and 7.....**40.13**  
For 6 Volts DC Input, 110 Volts 60 Cycles AC Output  
A-1010CW4 — for Brush BK-414 and BK-411 (measures 10 1/4 x 4 1/2 x 5 inches, weighs 19 lbs.).....**48.02**  
A-1060CW — for Webster-Chicago 180, 81 and 7.....**41.84**

## MAGNETIC TWIN-TRAX RECORDER, Type 710-B

Records one full hour on standard half-hour recording tape!  
Wide Range - 50 to 9,000 cps.!

Offers maximum quality of recording together with unusual economy of operation. Tape costs cut in half by use of two isolated and independent sound tracks. Records one hour continuously. Specially designed amplifier has separate bass and treble tone controls. Cathode ray indicator shows proper recording level. Inputs provided for microphone and radio-phono. Connections for headphones, external speaker, booster amplifier, 500-600 ohm line, VU meter and foot switch. Total distortion less than 3%. Portable model is a 2-piece recorder consisting of 2 matching handsome luggage-type cases; one houses mechanism and speaker, the other contains amplifier. Cases line up automatically when set up for operation. Dimensions each case: 9 3/4" high, 16 1/4" wide, 15" deep. Each section weighs 30 lbs. Tubes: 1 - 12SJ7, 1 - 12SC7, 1 - 6SL7GT, 2 - 6SN7GT, 3 - 6V6GT, 1 - 6E5, 1 - 5Y3GT. For 105-120 volts, 50/60 cycles AC.



**335<sup>00</sup>**

Less microphone

### MODEL 810-B TABLE MODEL



Uses Twin-Trax 808 mechanism and same amplifier as 710-B. This is a table model version of 710-B in handsome grey self-contained cabinet. Hinged top for easy access to mechanism. Excellent for professional quality recording in the home. Use this equipment to record favorite radio programs up to one hour without interruption. Size: 16 1/2" wide, 14 1/2" deep, and 14 1/4" high. Weight: 50 lbs. Less microphone. PRICE

**285<sup>00</sup>**

### Model 808 TWIN-TRAX Chassis Assembly



May be adapted with any amplifier for full hour's high fidelity recording on a single standard 1/2 hour tape reel. Twin record-erase heads use only one-half tape area in one direction of tape travel. Twin-Trax records and plays back on both forward and reverse. Single track tapes recorded on other recorders can be played back on Twin-Trax with full fidelity. Fast forward and reverse. Instantaneous automatic reverse without rethreading tape gives full hour continuity. Simplified tape threading, no intertwining required. Space requirements: 14" long x 11" wide x 6 1/4" overall height.

Less accessories. PRICE

**89<sup>50</sup>**

#### OPTIONAL ACCESSORIES

Phono Pickup Arm with Crystal Cartridge.....**1079**  
Turntable and Pickup Arm Bracket.....**175**

### MAGNETIC RECORDING TAPE

PAPER BASE — Top quality. Strong, easy to handle and a snap to edit. Uniform magnetic coating and high coercive force for low noise level and wide range response. May be replayed thousands of times without loss of fidelity. Standard 1/4" width, 7" reel, 1200 ft. 1/2 hour spool. NET

In lots of 12.....EACH **233**

PLASTIC BASE — Greater physical strength, 10 db. lower noise level, less distortion and higher output. Regular 1/4" width, 7" reel, 1200 ft. 1/2 hour spool. NET

In lots of 12.....EACH **367**

Empty 7" tape reels.....EACH **.64**



### KORD-O-KOIL Telephone Pickup for Tape, Wire and Disc Recorders

Kord-O-Koil is simple to use and does not require any electrical connection to telephone. Just place under desk phone base or on wall box to record both sides of a telephone conversation. Connects to any recorder or amplifier in same manner as a high impedance microphone.

PEDESTAL model — for use under cradle type desk telephone **588**

CARTRIDGE model — for use with ringer-box telephones **470**

### E-Z-CUE TAPE COUNTER

The ideal device for indexing and cueing the contents of reels of recorded tape. Saves time and trouble in locating any selection, word, syllable, sound effect or musical note. Easily attached to any recorder. Accurate to better than one part in a thousand, maintains its precision accuracy during forward, reverse and high speed shuttling. Furnished complete with instructions. When ordering, please specify make and model of your magnetic recorder. PRICE

**11<sup>90</sup>**

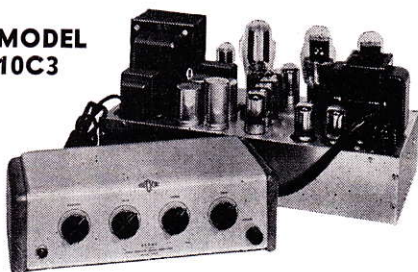


# SUPERLATIVE AMPLIFIERS AND WIDE RANGE TUNERS

## BROOK High Quality AMPLIFIERS

In the Brook High Quality Amplifier, audio reproduction reaches its highest achievement. Due to the use of triodes throughout, the Brook patented automatic bias control circuit and specially designed transformers available in no other amplifier, distortion in the Brook has been reduced to a point hitherto unapproached except in the laboratory. Developed to provide the utmost in amplifier performance without regard to manufacturing cost, there is no way in which its audio characteristics could be improved by additional expense.

### MODEL 10C3



30 WATTS with patented bias control circuit. Four inputs for high impedance microphone; Pickering, G.E. and similar wide range phono cartridges; for tuners and crystal cartridges. Separate pre-amplifier with input jacks and all operating controls, 12 3/4" x 6 1/2" x 3 3/4". 30 watt power amplifier stage measures 17" x 8 x 8 1/2". Supplied with 6 ft. remote cable. Cable lengths up to 50 ft. may be used without affecting ratings (prices on request). Tubes: 4-6SJ7 (triode connected), 6-6J5, 2-2A3, 1-6SN7, 1-5U4G. Net wt. 42 lbs. Complete with tubes, connectors and instructions.

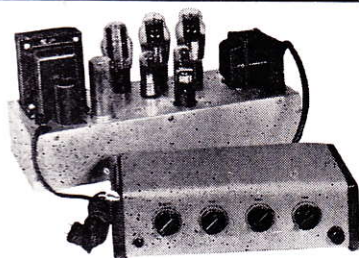
**232<sup>26</sup>**

### Specifications Apply to All Brook Amplifiers

Frequency response: 20 to 20,000 cps. plus or minus 0.2 db. Inter-modulation distortion held down to below 2% at full volume. Hum level better than 75 db. below full output. Bass and treble tone controls are switch-type, with separate networks for definite response curves. Up to 25 db. bass boost to 50 cycles and up to 10 db. boost at 20,000 cycles; attenuation positions incorporated. All amplification tubes are triodes or triode-connected. Output impedances 1.5 to 25 ohms, with separate 500 ohm winding. For operation on 117 volts 50/60 cycles AC.

### Model 12A3 - 10 Watts

Two high gain inputs equalized for magnetic reluctance cartridges and one medium gain high impedance input for radio tuner, crystal pickup or magnetic recorder. Tubes: 4-6SJ7 (triode connected), 1-6SN7, 2-6J5, 2-2A3, 1-5U4G. Pre-amplifier cabinet contains all controls, including input channel switch; measures 12 3/4" wide, 6 1/2" deep, 4 3/4" high. 10 watt power stage and power supply, 17" wide, 6 3/4" deep, 8 1/2" high. Total wt. 22 1/2 lbs. With tubes, connectors and instructions.



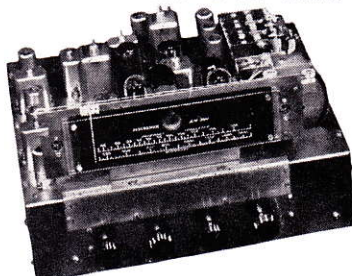
**166<sup>11</sup>**

**Model 12A** — 10 watt power stage of the 12A3. Recommended for use with radio tuners incorporating self-contained tone and volume controls. High impedance input. Tubes: 1-6SN7, 2-6J5, 2-2A3, 1-5U4G. Weighs 18 lbs. Complete with tubes and instructions.

**97<sup>02</sup>**

FOR RECOMMENDED SPEAKERS SEE PAGES 5, 10 AND 11

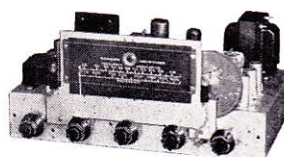
## MEISSNER FM-AM TUNER and AMPLIFIER



**9-1093** — Meissner's finest, in complete radio form. Consists of precision engineered AM-FM tuner chassis and amplifier-power supply chassis. No short-cut engineering or design here! Top quality components and master craftsmanship throughout! 18 watts of undistorted, perfectly tone-balanced audio output from 50 to 15,000 cps. Total harmonic distortion confined to less than 2%. Push-pull 6L6 output stage. Tuner chassis consists of separate AM and separate FM circuits, tuned R.F. stage on both bands. Three I.F. stages and double limiter in authentic Armstrong FM circuit assures flawless FM reception. Variable selectivity 2 stage I.F. channel on AM provides sharp tuning for best selectivity or broad tuning for widest frequency response. Full range tone control. 22 tubes, including two rectifiers. Separate indoor antennas for FM and AM. Phono input for crystal or new reluctance cartridges (specify when ordering). Output impedances to match any speaker (specify type of speaker to be used). Supplied with tubes, knobs, escutcheon plate and mounting hardware. For operation on 105-125 volts, 50/60 cycles AC. Tuner chassis measures 14 1/8" W x 16 1/4" D x 8 3/8" H. Amplifier measures 7 1/8" W x 16 1/4" D x 7" H. For recommended speakers, see pages 5, 10 and 11.

NET PRICE  
**186<sup>00</sup>**

## MEISSNER AM-FM TUNER



**9-1091C** — Your best choice for use with your favorite amplifier. Design, engineering and construction similar to 9-1093 tuner section, with following additional features: Separate bass and treble controls for independent boost or attenuation, high impedance phono input, high impedance or 500 ohm output, self-contained power supply. 17 tubes, including rectifier. Chassis measures 16 5/8" W x 10 3/4" D x 8 3/4" H. Allow additional 1/4" between chassis and panel. Supplied with tubes, knobs, escutcheon plate and mounting hardware. For 105-125 volts 50/60 cycles AC. Shipping wt. 25 lbs.

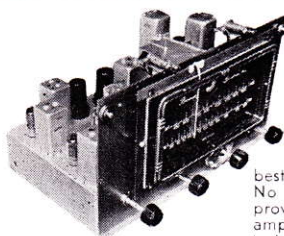
**147<sup>00</sup>**  
NET

Black crackle cabinet for broadcast stations and recording studios.

**882**

Matched cutout panel for steel cabinet.

**235**



## BROWNING AM-FM TUNER

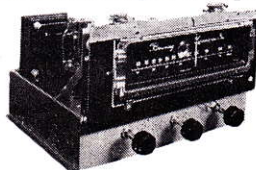
**RJ-12A** — FM circuit same as the fine RV-10. AM tuner portion utilizes separate 3-gang tuning condenser with triple tuned I.F. amplifier stages, for best results on broadcast band. No audio stage or tone control provided; designed for use with amplifiers incorporating tone control systems. Separated power supply chassis solves difficult mounting problems, especially where space is limited. Tubes: 3-6AU6, 1-7F8, 1-6SK7, 1-6SG7, 2-6SJ7, 1-6H6, 1-6SA7, 1-6U5, 1-1N34 diode. Dimensions 7 3/4" H x 13 1/2" W x 9" D. Net wt. 12 lbs. With tubes, knobs, hardware and instructions.

**121<sup>18</sup>**  
NET

**MODEL PF-12** — Power supply for RJ-12A. 6" H x 3 1/2" W x 8" D. Net wt. 8 lbs. With 5Y3GT rectifier and connector cable.

**1546**

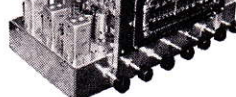
## Browning Frequency Modulation Tuner



**RV-10** — Genuine Armstrong FM circuit. High sensitivity with excellent no-drift stability. Tunes 88-108 megacycles. Effortless tuning, using new double image cathode ray indicator tube. Tuned R.F. stage, two-stage limiter. Undistorted output. Tubes: 3-6AU6, 1-7F8, 2-6SJ7, 1-6H6, 1-6AL7, 1-80. Size 6 1/2" H x 11" W x 8 3/4" D. With tubes, escutcheon, knobs and instructions.

**87<sup>71</sup>**

## BROWNING FM-AM WIDE RANGE TUNER CHASSIS



**RJ-20** — a deluxe AM-FM tuner made to laboratory standards. Incorporates two independent timers for best possible reception on FM and AM. High fidelity AM is accomplished by a variable band-width I.F. amplification system. Genuine Armstrong circuit on FM insures finest audio response from 15 to 15,000 cps. From the standpoint of appearance and operating results, this tuner will delight the most discriminating engineer. Two stages of audio amplification with separate bass and treble controls give up to 20 db. boost. Phono input jack. High impedance output, 1.5 volts. Double image cathode ray indicator tube for easy, precise tuning. Tubes: 5-6AU6, 1-7F8, 2-6AL5, 1-12AU7, 1-6SK7, 1-6SA7, 1-6SG7, 1-6AL7, 1-5Y3. Size 7 1/2" H x 17" W x 9" D. For 115 volts 50/60 cycles AC. Net wt. 18 1/2 lbs. With tubes, knobs, escutcheon, all hardware and instructions.

**166<sup>50</sup>**  
YOUR COST

4 **BREATH-TAKING REALISM CAN NOW BE YOURS**



# WIDE RANGE REPRODUCERS AND CABINETS

## WEBSTER-CHICAGO

### MODEL 256-27

High Fidelity,  
Triple - Purpose  
Record  
Changer

Plays  
Standard 78  
rpm, LP Micro-  
Groove 33 1/3 rpm  
and RCA Micro-  
Groove 45 rpm.

This changer solves the problems for versatility and wide tonal range required to get best performance from the three types of phonograph records available. Works as automatic changer on 78 and 33 1/3 rpm and manual on 45 rpm. Also plays manual on 78 and 33 1/3 rpm. Change to 45 rpm speed is easily made in a fraction of a minute.

Wide range reproduction without distortion is accomplished by use of two individual and instantly interchangeable pickup heads, one for standard groove and the other for microgroove. Plug-in heads are designed to hold G.E. Reluctance cartridges. These heads plug into single tone arm, automatically adjusting for proper stylus pressure.

Base plate 14 1/4" x 14"; 5 5/8" above and 2 3/4" below base plate. For 105-125 volts 60 cycles AC. Supplied with plug-in holders, mounting hardware and instructions, less cartridges.

**25<sup>95</sup>**

For Pickup Cartridges, see page 13

### MODEL 256-1 THREE- SPEED CHANGER

Plays 78 rpm standard & 33 1/3 rpm micro-groove records automatically or manually. 45 RPM adaptor furnished to manually play RCA 7-in. micro-groove discs.

"Tilt-O-Matic" tone arm assures proper needle pressure in conjunction with "Tandem-Tip" crystal cartridge, which has both standard and microgroove tips. One fingertip control selects needle and correct tone arm weight; the other selects proper speed. Mounting size same as 256-27. Complete with dual-needle cartridge, hardware and instructions.

NET **31<sup>52</sup>**

### WEBSTER-CHICAGO Model 156-27

Same as the model 156-1 described on page 12, except equipped with General Electric variable reluctance cartridge. Requires pre-amplification (see page 13). Complete with G.E. RPX-040 cartridge hardware and mounting instructions.

NET **26<sup>56</sup>**

## NEW ALTEC LANSING 604B DUPLEX SPEAKER



### ALTEC LANSING FLOOR CABINET

605A — A distinguished furniture speaker console for 15" speakers. Rich mahogany or walnut finish. All interior joints screwed and glued to eliminate spurious rattles. 38" high, 30" wide, 16" deep. Wt. 150 lbs.

Net price **135<sup>00</sup>**

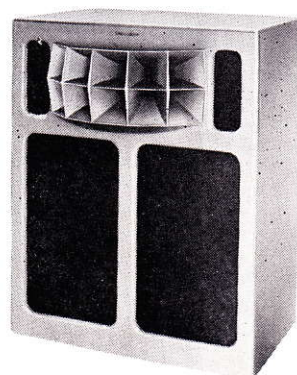
Altec's finest 15-inch duplex speaker for home or studio use. Reproduces entire audible range from 30 to 16,000 cps with sparkling, life-like clarity. Separate high frequency and low frequency speakers in one convenient unit. Signal capacity — 30 watts. Input impedance 16 ohms. 15 1/2" diam., 11 1/8" depth. Supplied complete with N-1000B dividing network, which correctly distributes high and low frequencies to each speaker section. NET **175<sup>50</sup>**



## Speaker Systems **TRU-SONIC** by Stephens

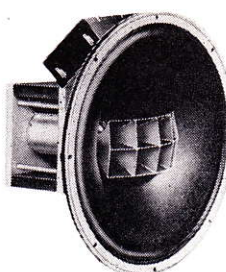
### MODEL P-63HF

Specially designed to give the finest tonal reproduction of music and voice. Frequency response 30 to over 15,000 cps maintained from soft living room volume to high theater levels. 600 cycle crossover points permits reproduction with lowest possible distortion by preventing low-frequency cone breakup, which occurs at frequencies above that point. Equipped with H-F attenuator to perfectly balance room acoustics. Special chamber behind low-frequency drivers reinforces bass to 30 cycles. Employs two P-52LX low-frequency drivers; and 2 x 5, 10 cell, 100° x 40° high frequency disperser. Conservatively rated at 30 watts power capacity. 16 ohms input. Wt. 245 lbs.



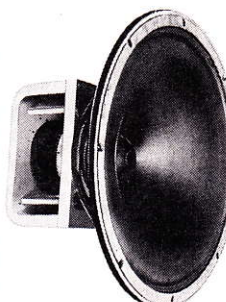
P-63HF-SD — 2-way system in Period Cabinet, mahogany or bleached blonde. 36" W x 25" D x 45 1/2" H. **474<sup>81</sup>**

P-63HF-U — 2-way system in gray Utility Cabinet, wine flocked grille. 36" W x 25" D x 45" H. **396<sup>90</sup>**



### P-52A 15" COAXIAL TRU-SONIC SPEAKER

Combines in a single assembly a cone type low-frequency unit, a multicellular type high frequency unit and dividing network. Ideal for FM and AM reception, broadcast station monitoring and wide-range record reproduction. Uniform frequency response 40 to 15,000 cps. Power capacity—20 watts. Input impedance—16 ohms. 15 1/8" diameter, 10" depth. **120<sup>54</sup>** Wt. 30 lbs.



### P52LX 15" LOW FREQUENCY DRIVER

Powerful 15" speaker for any low frequency application. Curvilinear-designed, highly efficient seamless molded and moisture-resistant cone. Excellent suspension compliance of 2" voice coil promotes ideal piston-like action of the diaphragm. 20 watts power input, 8 or 16 ohms impedance. 15 1/8" diameter, 8 1/8" depth. Resonant frequency is 43 cycles. Weight 25 lbs. **470<sup>4</sup>** NET

### 824-H MULTI-CELLULAR HORN

For use with P-15 driver and 800X crossover. Distribution — 80° horizontal, 40° vertical. 16" W x 10" D x 11 1/2" H. Provides proper acoustic loading for tweeter. **2940**



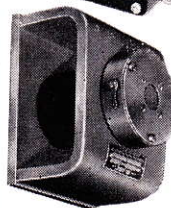
### 800X Crossover Network

Low-loss dividing network necessary to distribute "lows" to P-52LX or P-22L and "highs" to P-15. 16 ohms input and output. **2646**

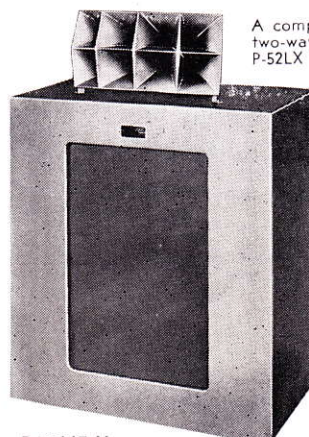


### P-15 H-F Driver

20 watt 500—16,000 cps tweeter for use with P-52LX or P-22L. 16 ohms impedance. 4 x 6 x 3 3/4" overall. **4116**



### P-52HF in UTILITY CABINET



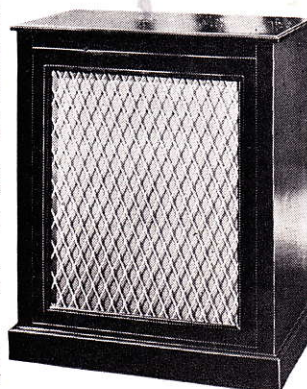
P-52HF-U Complete in gray Utility Cabinet, 23 1/2" W x 17" D x 32" H. Wine grille flocked on heavy wire mesh. **188<sup>16</sup>**

A complete Tru-Sonic separate two-way system, comprising P-52LX low-frequency driver, P-15 high frequency driver, 824-H multicellular and 800X crossover, assembled in either Utility Cabinet or fine Period Cabinet.

Overall frequency response is 40 to 16,000 cps. Power input 20 watts, 16 ohms impedance.

P-52HF-SD → Complete in Period DeLuxe Cabinet, mahogany or bleached blonde. 36 1/2" H x 28 3/4" W x 19" D. **258<sup>72</sup>**

### STEPHENS P-52HF IN CONSOLE CABINET



52U—Utility Cabinet only, as illustrated. **35<sup>28</sup>**

52SD—Console cabinet only, as illustrated. **105<sup>84</sup>**



# WIDE RANGE AMPLIFIERS FOR PHONO AND TUNER

## SCOTT DYNAMIC NOISE SUPPRESSOR AMPLIFIER

### MODEL 210-A



A great achievement in music reproduction — recorded, AM and FM — is yours with H. H. Scott Laboratory Amplifier with Dynamic Noise Suppressor. Less than 2% distortion at 20 watts output; maximum power

is 25 watts. Inevitable background noise of record reproduction is virtually eliminated through new patented Dynamic Noise Suppressor circuit, with new brilliance of highs up to 10,000 cycles. DC powered preamplifier minimizes hum, 10 Kc. whistle filter improves AM reception, output impedance to match any standard speaker impedance between 2 and 500 ohms — all are features of this famous amplifier. Ten tubes include 1 - 12SL7, 1 - 6SL7, 1 - 6SQ7, 1 - 12SG7, 2 - 6SG7, 1 - 6SN7, 2 - 6L6 and 1 - 5V4. Price includes cables, plugs, complete instructions and full year guarantee.

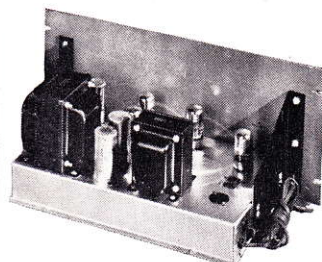
**269<sup>00</sup>**

211-A — Same as above, but with triodes used throughout including output stage. Power output 14 watts.

**269<sup>00</sup>**

## The FISHER Model SA-1

Dynamic Noise Suppressor Wide Range Amplifier



For the serious record collector. Permits full enjoyment of rare musical selections and performances of famous artists of past and present without annoying and distracting noise, rumble and chatter. 20 watts output with only 1% distortion. Response is uniform from 20 to 20,000 cps. Input is properly equalized for G.E. and Pickering pickup cartridges. Dual tone equalizing controls. Power supply and output stage on separate chassis for minimum hum. Matching impedances 8 and 16 ohms. Tubes: 2 - 12AT7, 1 - 6C4, 3 - 6BA6, 1 - 6AL5, 1 - 6AQ6, 2 - 6E5, 4 - 7C5, 1 - 7A4, 2 - 5Y3. Amplifier panel size: 10 1/2" H x 19" W; chassis: 13" W x 8" D x 8 3/4" H. Power unit panel: 8 3/4" H x 19" W; Chassis: 14 1/2" W x 8 1/2" D x 7 1/4" H. With tubes and instructions.

**254<sup>00</sup>**

## ALTEC LANSING A323-B AMPLIFIER

for fine phonograph and  
radio listening



Outstanding features include flat response within 1 db. from 20 to 20,000 cps. 15 watts undistorted output. One high-gain input equalized for new G.E., Pickering and similar wide range cartridges. One low-gain input for standard phono pickup and radio tuner. Continuously variable bass tone control. 4-step sharp cut-off treble control. Push-pull beam power output

stages. Tubes: 2 - 6J7, 1 - 6J5, 2 - 6L6G, 1 - 5U4G. Output impedances 2.5-5, 8-12, 16-24 ohms. Dimensions: 12" W x 9" D x 9" H. Complete with tubes and input connectors.

**133<sup>00</sup>**

## THORDARSON TRU-FIDELITY



31W10AX — Incorporates the famous Thordarson double tone control circuit. Separate boost and attenuation on "highs" and "lows". Frequency response is 40 to 15,000 cps.  $\pm 1$  db. Output is 10 watts with less than 5% distortion. Triode output stage. 2 high impedance inputs, high gain for microphone and normal gain for phono-radio input. Tubes: 1 - 6J7, 1 - 6SJ7, 1 - 6J5, 1 - 6SN7, 2 - 6B4G, 1 - 5U4G. Output impedances from 4 to 500 ohms. Dimensions: 14" W x 8" D x 7 1/2" H.

**74<sup>97</sup>**

31W11 — 10 watts, same output stage as 31W10AX. No volume or tone controls, but incorporates a distortion-free volume expander circuit. This amplifier is specifically for use with the Meissner 9-1091C tuner or other 500 ohm signal sources. However, its bridging input circuit permits high impedance input with a gain of 68 db. with the addition of an external volume control. Response is 50 to 15,000 cycles, with intentional bass boost of 4 db.

**74<sup>97</sup>**

## NEWCOMB 14 WATT Phonograph Amplifier



HLP-14

A new phonograph amplifier designed to provide utmost realism of recorded music. "Magic Red Knob"—ingenious record condition compensator control literally tunes out objectionable needle scratch and distortion from records in the best or poorest condition, while retaining the natural brilliance of the original recording. Frequency response 30 to 15,000 cycles within db. Preamplifier compensated for new wide range cartridges. Improved bass and treble controls for superior tonal balance from whisper levels to full room volume. 3 inputs: crystal pickup; reluctance and magnetic cartridges; AM-FM tuner. Tubes: 1 - 6SC7, 1 - 6SJ7, 1 - 6J5, 2 - 6V6GT, 1 - 5Y3GT. Output impedances: 3, 4, 6, 8, 16 and 500 ohms. Size: 13 3/8" W x 8 1/2" D x 6 3/4" H. For 105-125 volts, 60 cycles AC.

**84<sup>96</sup>**

## KLXP-30 — 30 WATTS

Higher powered version of the HLP-14. Frequency response 20-20,000 cps.  $\pm 1$  db. Hum balance control corrects for variations of higher powered tubes. Tubes: 1 - 6SC7, 3 - 6J5, 2 - 6L6G, 1 - 5V4G. Size 13 1/2" W x 9 1/2" D x 7 1/8" H.

**132<sup>30</sup>**

## BOGEN PX 15

New High Fidelity  
Phono-Radio Amplifier



PX15

Offers the essential circuits and controls properly designed and constructed to obtain fine full range reproduction from phonograph records or radio tuners. Four-position record scratch control adjusts amplifier for best results regardless of record noise condition. Dual electronic tone correctors let you have the tone balance you want. Built-in equalized preamplifier for the new high fidelity magnetic pickups. Power output is 15 watts with 30-15,000 cps. response at less than 3% distortion. Output matching for 4, 8, 15 and 500 ohms. Tubes: 2 - 6SL7, 1 - 6SN7, 2 - 6L6G, 1 - 5Y3GT. Size 15" W x 9 1/4" D x 8" H. Complete with tubes and instructions.

**86<sup>25</sup>**

## BOGEN PX-15C with Remote Controls

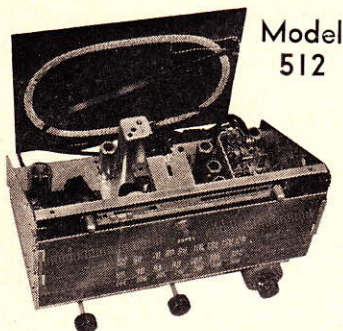
PX15-C — Same as above, with controls on 4 ft. extensions to help with difficult mounting problems.

**90<sup>75</sup>**



# FM AND AM WIDE RANGE TUNERS AND RECEIVERS

## ESPEY AM - FM TUNER

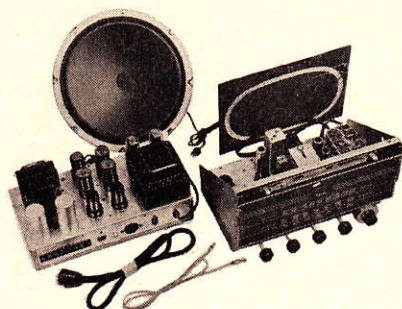


Model  
512

### WIDE RANGE TUNER

FM-AM self-powered tuner of excellent design for high fidelity reception. 11 tubes, including rectifier and tuning eye. Separate R.F. tuning assembly with stage of tuned radio frequency on both FM and AM. Frequency modulation circuit is drift-compensated. 6-gang tuning condenser. Separate indoor antennas for FM and AM are supplied. Connection terminals provided for outdoor FM and AM antennas. Equipped with phono input jack and power socket for external preamplifier required for new wide-range phono cartridges. Simplified controls are: Volume with on-off switch, FM-AM-Phono switch and balanced flywheel tuning. High impedance output for use with any standard amplifier. 13 1/2" wide, 8 1/2" high, 9" deep. Operates on 105-125 volts, 50/60 cycles AC. Weight—14 lbs. Supplied with tubes, antennas, knobs, escutcheon, all hardware and instructions. For recommended amplifiers, see pages 6 and 12.

**80<sup>51</sup>**



## ESPEY FM - AM RADIO

### Complete in Chassis Form

**MODEL 513 TUNER**—Incorporates all the excellent features of the model 512, with the added features of separate bass and treble tone controls. No power supply is incorporated, as this fine tuner is designed for use with the model 514 audio amplifier and power supply. 11 tubes, including tuning eye. 13 1/2" wide, 8 1/2" high, 9" deep. Weighs 9 1/2 lbs. Complete with tubes, antennas, escutcheon, knobs, connecting cables, all hardware and instructions.

**77<sup>03</sup>** NET

**MODEL 514 AMPLIFIER-POWER SUPPLY**—Specially designed for use with model 513 deluxe tuner. Push-pull parallel output circuit with self-balanced phase inverter delivers up to 20 watts of extended range high fidelity audio. Inverse feedback circuit for negligible distortion and noise content. Output impedances of 4, 8, 15, 250 and 500 ohms. Tubes: 2 - 6J5, 4 - 6V6, 2 - 5Y3GT. Operates on 105-125 volts, 50/60 cycles AC. 13 1/2" wide, 7 1/2" high, 7" deep. Weighs 18 lbs. With tubes, connecting cables and instructions.

**37<sup>83</sup>** NET

12" High Fidelity FM Speaker **10<sup>14</sup>**

## MEISSNER FM RECEPTOR



MODEL 8C

— A precision instrument easily connected to radios and amplifiers for wide range FM reception. Tunes 88 to 108 megacycles. Audio fidelity flat from 50 to 15,000 cps,  $\pm 2$  db. Two controls for tuning and volume/on-off switch. High impedance output 3-gang tuning condenser with copper plates for best high frequency efficiency. 8 tubes, including rectifier. Full instructions supplied. Walnut finished cabinet, 12 3/4" wide, 8" deep, 6 3/4" high. AC only. NET

**38<sup>33</sup>**

**MODEL 6L** — Model 8C chassis only (no cabinet). 11" wide, 6 1/2" deep, 5" high. Supplied with tubes, dial, knobs, hardware and instructions. NET

**34<sup>33</sup>**

## HOWARD FM TUNER

MODEL 482

A top-notch high fidelity tuner of extremely compact design. For installation where fine performance with small size is desired. Measures only 6 1/8" x 6 3/4" x 7 1/2". 3-gang tuning condenser with RF stage for maximum sensitivity. Drift-compensated. 7 tubes, including rectifier. When phono-graph is connected to model 482, the on-off power switch automatically acts as FM-Phono switch. Attractive cabinet available in solid mahogany with dark finish or hard-maple with blond finish. Operates on 110-120 volts 50/60 cycles AC. Shipping wgt. 9 1/2 lbs.



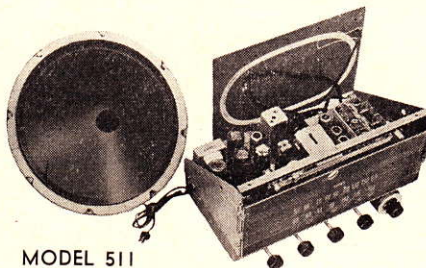
482  
MAHOGANY

**35<sup>90</sup>**

482  
BLONDE

**36<sup>21</sup>**

## ESPEY FM - AM RADIO CHASSIS



MODEL 511

An exceptionally efficient radio chassis incorporating all the features of the 513 tuner, with built-in 13 watt high fidelity audio system and power supply. Ideal for custom installations where high quality reception and compact size are required. Has power supply outlet for preamplifiers used with new wide-range magnetic phono cartridges. 14 tubes, including rectifier and tuning eye. Push-pull 6V6 output stage. Output impedances of 4, 8 and 500 ohms. Supplied with high fidelity curvilinear-molded heavy duty 12" loudspeaker. Chassis is 13 1/2" wide, 8 1/2" high, 10" deep; weighs 16 1/2 lbs. Operates on 105-125 volts, 50/60 cycles AC. Supplied with tubes, two antennas, escutcheon, all hardware, instructions and speaker.

YOUR COST

Complete

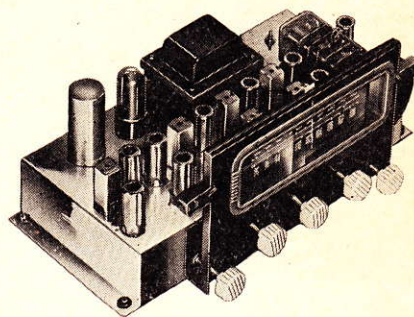
**96<sup>04</sup>**

less speaker

**85<sup>90</sup>**

Other suitable speakers are shown on pages 10 and 11.

## RADIO CRAFTSMEN FM - AM TUNER

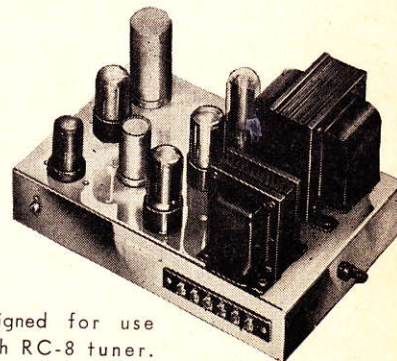


**MODEL RC-8** — Truly a masterpiece of the radio craft! Features automatic frequency control on FM for perfect tuning and drift-free stability. Has tuned RF stage on both AM and FM bands; 6-gang condenser. Double limiter with precisely balanced discriminator for perfect audio output on FM. Separate bass and treble controls. Function switch and connections for AM-FM-Phono-Television Audio. Power supply for wide-range phono preamplifiers. Supplied with separate FM and AM antennas. 10 tubes, including rectifier. For use with RC-2 or any other high quality amplifier. Polished chrome chassis completely shock-mounted. 15" wide, 9" deep, 7" high. For 105-125 volts, 50/60 cycles AC. Complete with tubes, interconnecting cable, escutcheon, knobs, instructions and mounting hardware. Shipping weight — 19 lbs.

YOUR COST

**110<sup>00</sup>**

## RADIO CRAFTSMEN RC-2 HIGH FIDELITY AMPLIFIER



Designed for use with RC-8 tuner.

Response from 20 to

20,000 cps. Output is 12 watts with only 1% distortion. Overall gain is 70 db., including inverse feedback. 5 tubes, including rectifier. Push-pull 6V6 output stage. Output impedances of 4, 6, 8, 15 and 500 ohms connect to any type speaker. Chrome plated chassis measures 7" x 10" x 6". For 105-125 volts, 60 cycles AC. Shipping weight— 12 lbs.

YOUR COST

**39<sup>00</sup>**





## IMPERIAL CONSOLE

Designed to enclose in a single, complete cabinet all equipment for a high quality radio-phonograph. Separate bass reflex chamber for best tone quality of 15-inch speaker. Upper and lower equipment compartments have bottom-hinged drop doors. Interior dimensions of each upper and lower compartment: 10 1/4" high x 18" wide x 17" deep. Individual back covers with ventilation openings. Blank finished panels for front of these compartments are supplied. Center compartment is a fixed front panel record changer drawer. Its interior size is 13" high x 17 1/2" wide x 18" deep. Overall dimensions of Imperial Console is 36" high x 37 1/4" wide x 18" deep. Supplied with matched tapered feet, which add 2 5/8" to height.

**Model L-251** — Blonde Mahogany..... **NET 189<sup>00</sup>**  
**Model L-351** — Cordovan Mahogany..... **EACH**

## RECORD ALBUM CABINET

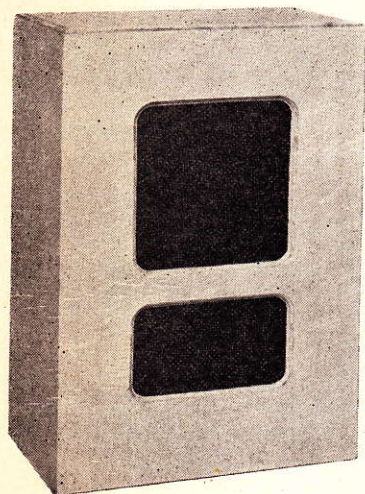
Provides storage space for more than 200 — 12-inch or 10-inch records in standard albums. Convenient upper shelf for album in use or for art objects. May be placed on its side, if desired. Fully enclosed back. Large shelves have 13 1/2" clearance; top shelf has 6" clearance. Overall size (less feet) 36" high x 18" wide x 18" deep.

**N-204** — Blonde Mahogany..... **51<sup>00</sup>**  
**N-304** — Cordovan Mahogany..... **EACH**

## FOOT ASSEMBLY KIT

Consists of two 2 5/8" high solid tapered feet which extend from front to rear of cabinet.

**ST-785** — Blonde Mahogany..... **375**  
**ST-805** — Cordovan Mahogany..... **SET**



**HW-15U** — For 15-Inch Speakers  
 Size 24" wide x 32" high  
 x 14 3/8" deep. **399<sup>5</sup>**

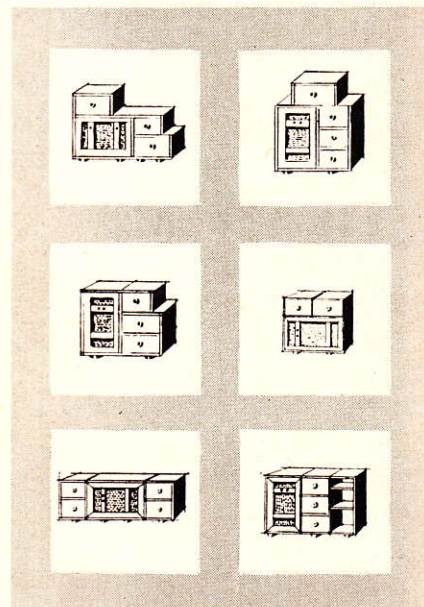
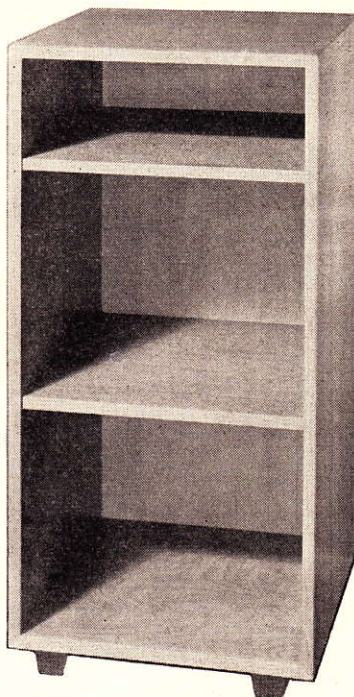
**HW-12U** — For 12-Inch Speakers  
 Size 21 1/8" wide x 30" high  
 x 13 3/8" deep. **335<sup>0</sup>**

## TERMINAL'S Unfinished Furniture Speaker Chambers

Finely grained hardwood veneers for beauty and strength. May be finished in natural, bleached, any shade of mahogany, maple, cherry, oak, walnut, limed or pickled. All you need do is a minor sandpaper touch-up then stain or color as desired. Will take high gloss or waxed finishes with that real furniture look. Let your loudspeaker take its rightful place in your home and at the same time enhance its decoration. Hiding the speaker baffle is no longer necessary with these new hardwood ready-to-finish bass-reflex cabinets. Supplied with 4 sound-absorbing pads, speaker mounting board and all hardware.

# CUSTOMODE UNITIZED CABINETS

This new achievement in beautiful modern styling and design permits you to arrange the furniture for your home entertainment center in any conceivable manner to suit your own requirements of space, equipment and general utility. The simple modern lines of Customode blend together for all layout arrangements. Strength and beauty combine in the finely textured, imported mahogany veneer panels, with solid mahogany trim. Flush satin-finish brass door pulls and controls add a striking and dignified touch. Two finishes are available: *Cordovan* and *Blonde Mahogany*.

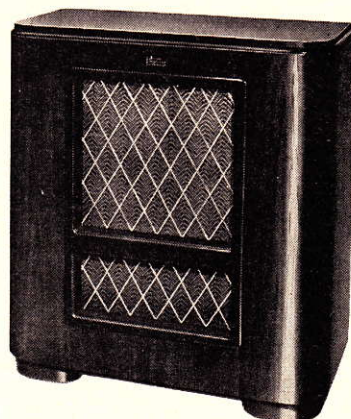


ASK US FOR FREE SCALE CUT-UP  
 ILLUSTRATIONS TO HELP PLAN  
 YOUR CUSTOMODE INSTALLATION

## CABINETS FOR BEAUTY,

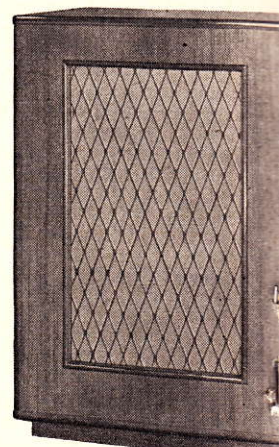
### JENSEN SPEAKER CONSOLE

### STEPHENS MODERN CONS



Handsomely styled, selected grain walnut woods. Polished brass grille. 27 7/8" H, 31 5/8" W, 13 3/8" D. Shipping wgt. 50 lbs.

**D-151** For 15" speakers **5064**  
**D-121** For 12" speakers **EACH**



**52D** — Deluxe cabinet in either mahogany or bleached blonde (please specify). 6 cu. ft., 42 cycle, 15" baffle. 34 1/2" high x 23 1/2" wide x 16 1/2" deep. Wt. 75 lbs. **7**

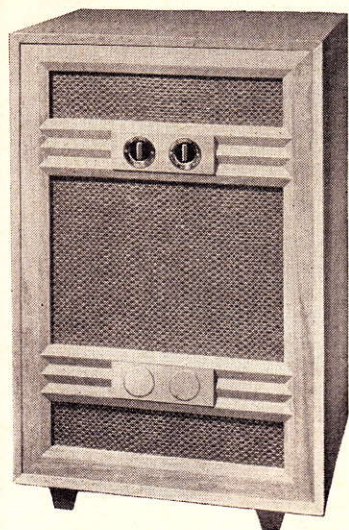


# ENTRY ONLY FOUR BASIC UNITS HUNDREDS OF COMBINATIONS

## SMALL UTILITY CABINET

Ample space for most tuners, amplifiers, record changers, recorders, etc. May be stacked in any sequence. Side-hinged door, removable plywood back with ventilation openings. Finished subpanel for equipment is supplied. For record changer use, order motorboard and slide assembly. Hinge is removed from front door to convert to drawer type record changer or recorder compartment. Interior dimensions 10 1/2" high x 16 1/2" wide x 17" deep. Outside dimensions 12" high x 18" wide x 18" deep.

**N-201** — Blonde Mahogany..... **28<sup>50</sup>**  
**N-301** — Cordovan Mahogany..... **EACH**

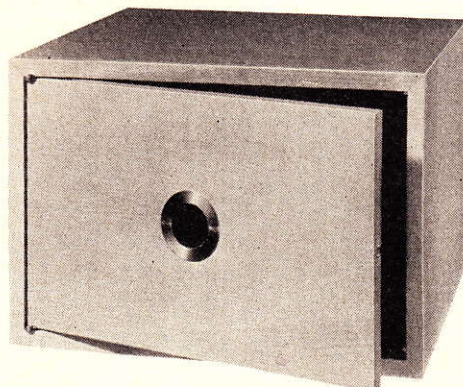


## TYPE M REPRODUCER CABINET

Brings new beauty of appearance and performance to your loudspeaker system. Correct design of bass-reflex enclosure to achieve full performance capabilities of your 15" speaker. Equally attractive when used upright or on its side. Four concealed cutouts for use of speaker controls, if desired. A beautiful cabinet for separate speaker use, as well as a basic unit of Customode assembly. Contrasting grille cloth for added beauty. Size 36" high x 24" wide x 18" deep. Supplied with foot assembly, which adds 2 5/8" to height.

**M-251** — Blonde Mahogany..... **67<sup>75</sup>**  
**M-351** — Cordovan Mahogany..... **EACH**

For high quality coaxial loudspeakers, see pages 5, 10 and 11.



## MOTORBOARD & SLIDE ASSEMBLY

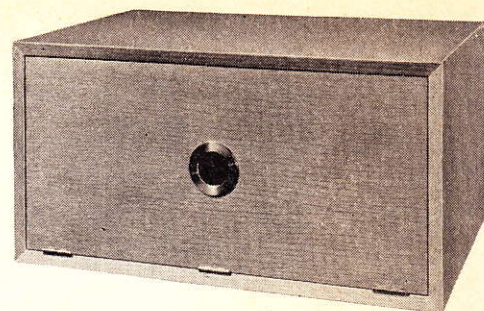
For converting above cabinet to pull-drawer style for accommodating record changer or recorder assembly. Plywood motorboard assembled to ball-bearing metal slides. Furnished with mounting screws.

**ST-777** — Blonde Mahogany..... **6<sup>00</sup>**  
**ST-797** — Cordovan Mahogany..... **EACH**

## FOOT ASSEMBLY KIT

For use, if required, with Small Utility Cabinet. Consists of matched pair 2 5/8" high solid tapered feet which extend from front to rear of cabinet.

**ST-785** — Blonde Mahogany..... **3<sup>75</sup>**  
**ST-805** — Cordovan Mahogany..... **PR.**



## MEDIUM UTILITY CABINET

For larger equipment such as AM-FM tuners, wide range amplifiers, wire and tape recorders, special manual record playing equipment, small television sets, communications receivers, etc. Drop-front bottom hinged door. Finished subpanel supplied so that you may make necessary cutouts and holes for escutcheons, dials or controls. When in drop position, door is securely supported by bronze-finished side hardware. May be stacked in any sequence. Interior space is 10 1/2" high x 22 1/2" wide x 17" deep. Outside dimensions 12" high x 24" wide x 18" deep.

**N-203** — Blonde Mahogany..... **38<sup>50</sup>**  
**N-303** — Cordovan Mahogany..... **EACH**

## FOOT ASSEMBLY KIT

For use, when required, with Medium Utility Cabinet. Comprises two 2 5/8" high solid tapered feet which extend from front to rear of cabinet.

**ST-776** — Blonde Mahogany..... **3<sup>75</sup>**  
**ST-796** — Cordovan Mahogany..... **PR.**

## SINGLE FEET — 2 5/8" high

For use in place of strip type feet as supplied in Foot Assembly Kits. Four pieces needed to support a cabinet or Customode stack.

**ST-782** — Blonde Mahogany..... **1<sup>50</sup>**  
**ST-802** — Cordovan Mahogany..... **EACH**

# PERFORMANCE AND UTILITY

## BOGEN BASS-REFLEX



**BBR** — Attractive bass-reflex cabinet for 15" or 12" speakers. Selected hardwoods, hand rubbed to smooth walnut finish. Heavily reinforced throughout. 31 1/4" high x 29" wide x 14 1/2" deep. Shipping wt. 50 lbs. **44<sup>10</sup>**

## TERMINAL'S UTILITY BASS-REFLEX CABINETS

for Value and Performance!

Sturdy plywood construction, 5/8" thick throughout. Properly proportioned internal air space and escape port reinforces low tones. Will improve the performance of any speaker. Excellent for coaxial speakers using built-in high frequency units.

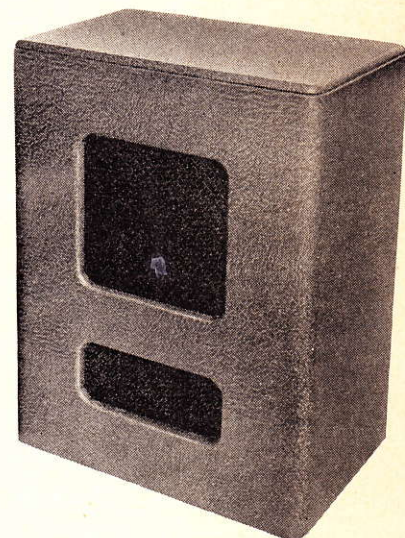
Cabinet for 12" speaker measures 30 1/2" high x 21" wide x 12 1/2" deep. Inside depth is 11 1/4".

Cabinet for 15" speaker measures 32 1/2" high x 24" wide x 14 1/2" deep. Inside depth is 13 1/4".

All cabinets are supplied with speaker mounting baffle board, 4 sound-absorbing pads and hardware.

## FOR 12" SPEAKERS

**Model 12U**..... **16.25**  
Unfinished, suitable for painting  
**Model 12B**..... **19.25**  
In brown leatherette  
**Model 12G**..... **22.25**  
In deep grey leatherette



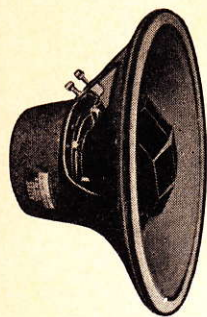
## FOR 15" SPEAKERS

**Model 15U**..... **19.50**  
Unfinished, suitable for painting  
**Model 15B**..... **22.50**  
In brown leatherette  
**Model 15G**..... **25.50**  
In deep grey leatherette



# WIDE RANGE LOUDSPEAKERS AND TWEETERS

## ALTEC LANSING NEW PROFESSIONAL STUDIO LOUDSPEAKERS

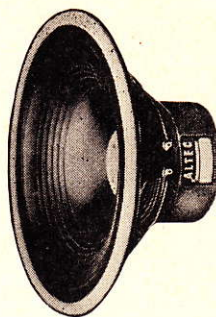


**603B 15-inch**  
Outstanding quality and efficiency. Wide extended frequency response accomplished by Altec Lansing's Dia-Cone principle of reproducing frequencies above 2,000 cycles from an aluminum diaphragm secured to the voice coil form. Multicellular horn gives smooth wide angle distribution. 15-inch cone and 3" voice coil contribute to superlative bass reproduction. Signal capacity: 25 watts; diameter: 15 1/8"; depth: 6 5/8"; voice coil impedance: 8 ohms; weight: 18 lbs.

**63<sup>00</sup>**  
NET

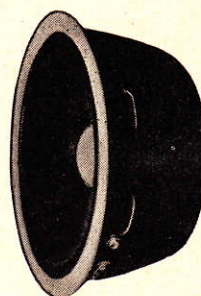
**600B 12-inch**  
Employs same Dia-Cone principle as model 603B. Designed for fine reproduction where a maximum speaker diameter of 12 inches is permitted. Power capacity: 20 watts; diameter: 12 1/4"; depth: 5 1/4"; 3-inch voice coil has impedance of 8 ohms; weight: 12 lbs.

**45<sup>00</sup>**  
NET



**400B 8-inch**  
Newest member of Altec Lansing's Dia-Cone family. Recommended for applications where high quality and small size are needed. This fine 8-inch speaker is ideal for compact high fidelity systems. Also a fine choice as an extension speaker for high fidelity home installations. Delivers high output with excellent quality. Power capacity: 12 watts; diameter: 8 1/4"; depth: 3 5/8"; voice coil diameter 1 3/4"; voice coil impedance: 8 ohms; weight: 4 lbs.

**18<sup>00</sup>**  
NET

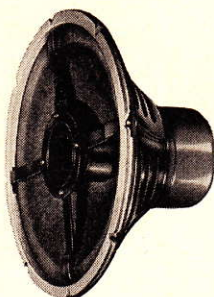


## JENSEN SPEAKERS - EXCELLENT QUALITY AT A MODERATE PRICE

**JRP-40 12" Coaxial**

An excellent coaxial permanent magnet speaker for modernizing or replacing single 12" cone speakers. Low frequency unit gives response down to 50 cycles; high frequency unit extends response up to 12,000 cps. Power input: 10 watts; matches 6 to 8 ohm output impedances;

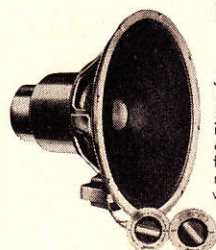
diameter: 12 1/8";  
depth: 5 7/8";  
**YOUR COST 19<sup>60</sup>**



**HNP-51 15" Coaxial**

Jensen's finest permanent magnet coaxial speaker combines a highly efficient specially shaped low frequency cone with a horn type high frequency tweeter. Frequency range is 50 to 15,000 cps, with extraordinary low distortion content. Will handle up to 25 watts. Has built-in crossover network, with 4-position

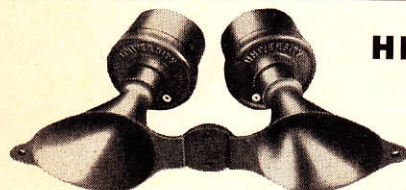
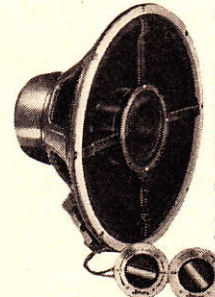
"roll-off" switch to adjust response range; also power input control. Input impedance: 500 ohms; diameter: 15 1/8"; depth: 10 5/8";  
**YOUR COST 81<sup>66</sup>**



**JAP-60 15" Coaxial**

For FM-AM and high quality phonograph reproduction. Wide response range of 50 to 15,000 cps by use of separate woofer-tweeter sections combined in one unit. Dividing network with 4-position switch permits selection of best tone range. Power input control for adjusting volume at speaker. Power handling capacity: 17 watts; input impedance: 500 ohms; diameter: 15 1/8"; depth: 8 1/8";

**55<sup>54</sup>**  
NET



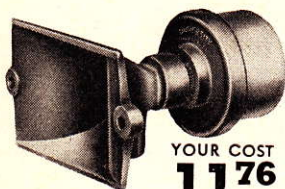
## UNIVERSITY HIGH FREQUENCY TWEETERS

These new high frequency speakers add the brilliant "highs" so frequently carried through all stages of amplification, only to be lost in the bottleneck of a single unit reproducer. Instead of average response of up to 6,000 cycles, you can now achieve full range reproduction up to 15,000 cycles by adding one of these units to your present speaker. You can also build your own dual speaker system by incorporating a new University tweeter with any good 12" to 18" speaker or low frequency "woofer."

**4402** — Dual tweeter. Frequency response: 2,000-15,000 cps; impedance: 6 or 24 ohms; power capacity: 12 watts; horizontal distribution area: 100°; vertical distribution area: 50°; length: 9 1/2"; height: 2 5/8"; depth: 5". Requires 2 1/2" x 8 1/4" opening.

**23<sup>52</sup>**

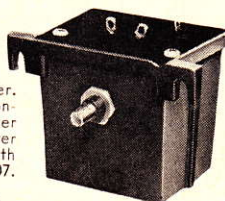
**4401 Single tweeter.** Characteristics same as dual tweeter, with the following exceptions: power capacity: 6 watts; impedance — 12 ohms; horizontal distribution angle 50°; size: 4" wide x 2 3/4" high x 5" deep.



**YOUR COST 11<sup>76</sup>**

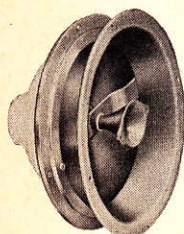
**4405** — High pass filter with auxiliary balancing control has been designed to pass only frequencies above 2,000 cps to the tweeter. The built-in variable control also provides power balancing between tweeter and woofer. For use with models 4401, 4402 and 4407. Die cast container is 3 1/2" W, 2 1/4" D, 2 1/2" H.

**588**  
NET



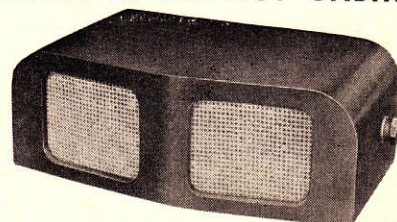
## Coaxial Tweeter Adapter

**4407** — A new convenience for extending response range to 15,000 cps. Make your own coaxial 2-way speaker system. May be used with any field excited or PM type 12" speaker. Requires only 3 inches additional depth behind panel. Use with 4405 high pass filter. Supplied with mounting hardware and instructions. Shipping weight — 5 lbs.



**NET PRICE 14<sup>70</sup>**

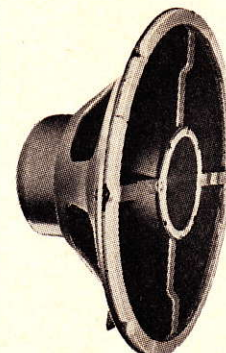
## DUAL TWEETER and HIGH PASS FILTER IN WALNUT CABINET



**4404** — A complete high frequency speaker system for use with existing standard speaker. Consists of 4402 dual tweeter and 4405 high pass filter mounted in beautifully finished walnut cabinet. Size: 11 1/2" W, 3 3/4" H, 6 1/2" D.

**35<sup>28</sup>**

## CINAUDAGRAPH CINAXIAL SPEAKERS



Frequency response 50 to 15,000 cps. Input impedances are 8 ohms. Supplied with balanced bridging network. Use in same manner as a standard speaker, but enjoy the wide range performance of a dual speaker system.

**CIN-12A**  
12-inch size, 10 watts capacity, 3" tweeter..... **16<sup>17</sup>**

**CIN-15B**  
15-inch size, 15 watts capacity, 5" tweeter..... **27<sup>93</sup>**

**CIN-15C**  
15-inch size, 18 watts capacity, 5" tweeter..... **36<sup>75</sup>**

For Suitable Speaker Cabinets,  
See Pages 2, 5, 8, 9 and 11

**USE PROPER CABINETS FOR BEST SPEAKER PERFORMANCE**



# SPEAKERS • BAFFLES • WIRE • ACCESSORIES

## GENERAL ELECTRIC

### S1201-D



— 12" permanent magnet high fidelity speaker. Molded curved cone for best response and lowest distortion. Resonant frequency is 55 cycles. 14½ oz. Alnico V magnet. Frequency response is 50 to 13,000 cycles. Voice coil impedance is 8 ohms. Power handling capacity of 25 watts. Non-warping aluminum voice coil, 1¼" diameter.

NET  
**17<sup>35</sup>**

## Speaker Grille Fabrics

Woven of LUMITE, a luxurious plastic fabric. Scientifically designed to permit full passage of high frequencies. Absolutely will not muffle or impede sound waves. Easy to cut to required size. Texture of this ideal speaker grille cloth does not stretch, shrink or sag after tacking into place behind baffle opening. No wire mesh backing needed.

Many hues available to blend or favorably contrast with all wood finishes. Width 36" or more. Prices shown are per running yard.

Ivory .....	<b>2.60</b>
Brown with tan stripe.....	<b>2.60</b>
Brown with ivory basketweave.....	<b>3.70</b>
Mahogany with gold interlaced.....	<b>3.40</b>
Walnut, hex pattern weave.....	<b>4.64</b>
Mahogany with subdued green hex pattern weave.....	<b>4.64</b>

## CLAROSTAT T-PAD SPEAKER VOLUME CONTROLS

Maintain proper matching to both speaker and amplifier. Permits control of loudness on remotely placed speakers. Available in 6, 8, 15, 250 and 500 ohms. Specify impedance desired.

PRICE  
**250**  
EACH



1½ diameter,  
2¼" depth  
behind panel.

## BELDEN FM DIPOLE ANTENNAS

**8320** — A highly efficient, well constructed folded dipole antenna for the 88-108 Mc. band. Antenna elements and 5 ft. pole are aluminum. Supplied with 65 ft. twin-lead transmission line, stand-off insulators, mounting straps and instructions for simple assembly. **5<sup>09</sup>**

**8321** — Reflector Element Kit for 8320 antenna. Improves signal strength and gives greater directivity. Helps long distance FM reception. Complete **2<sup>06</sup>**

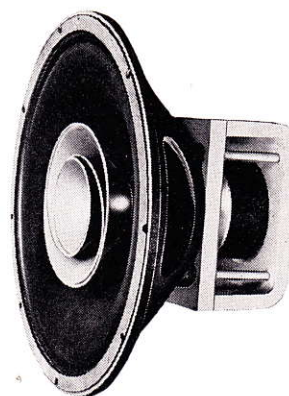
**8322** — Polypoint all-directional antenna for the 88-108 Mc. FM band. Double folded dipole cross mounted with ¼ wave phasing stub. Provides excellent efficiency over the entire band in all directions. Antenna elements and mast are aluminum. Supplied with 65 ft. twin-lead, stand-off insulators, special adjustable mounting base for flat or sloping surface, and full instructions. **8<sup>08</sup>**

**AMPHENOL TWIN-LEAD** — 300 ohm impedance, for extending lead-in lines to FM tuner. Per 100 ft. **2<sup>06</sup>**

## STEPHENS CO-SPIRAL Wide Range SPEAKERS

**P-52FR** — 15-inch. Greatest electro-acoustic transfer efficiency and widest frequency range of any speaker utilizing a single voice coil. Reproducing range is 40 to 14,000 cps. The Silver Spiral treble diffuser is the newest method of high frequency propagation and has a wide dispersion angle (90°). Seamless molded curvilinear cone of new design. An excellent speaker for all high fidelity applications for home or professional use. Power capacity—15 watts. Input impedance is 8 ohms. 2½ lb. Alnico V magnet. Diameter—15½ inches. Shipping wt.—27 lbs. **47<sup>04</sup>**

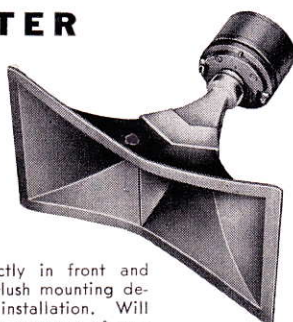
**P-22FR** — 12-inch. Same characteristics as above, but 12" size. Shipping weight—24 lbs. **41<sup>16</sup>**



## RACON TWO-CELL HIGH FREQUENCY TWEETER

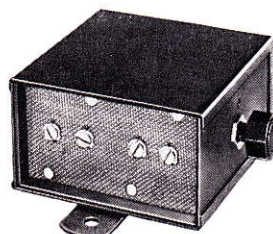
### CHU 2

Wide angle distribution, 120° horizontally and 60° vertically, spreads clean high frequency tone throughout the room. Avoids hard tone directly in front and dull on sides. Flush mounting design simplifies installation. Will expand frequency response of your present speaker to 15,000 cycles. Voice coil impedance — 15 ohms. Face size 10½" W x 7" H x 8¾" deep. **17<sup>64</sup>**

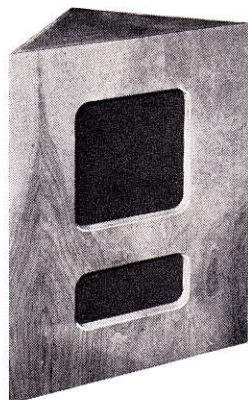


### CON 15 R

Filter Cross-over Network, resistor-capacitor network with cross-over at 1500 cycles, for correct balance of highs of CHU2 to lows of any 12" or 15" loudspeaker. Built-in high frequency level control. Compact, completely enclosed, easy to mount. Size 4 x 4 x 2½ inches. **6<sup>47</sup>**



## UNFINISHED CORNER HARDWOOD BAFFLE For 8" Speakers



A convenient and attractive mounting for extension speakers. Improves speaker performance. Finely grained hardwood veneers may be finished to match room furnishings. Triangular shape uses minimum of space. May be placed on floor or mounted higher up in corner of room. Size 18¾" wide x 23½" high. Depth is only 9½" from face panel to corner. **24<sup>50</sup>**

## STEPHENS 12" LOW FREQUENCY DRIVER - P22L



Powerful 12" woofer speaker for low frequency applications. Curvilinear-designed, highly efficient seamless molded and moisture-resistant cone. 2½ lb. Alnico V magnet. 2" voice coil treated with a refined temperature-resistant varnish. Power capacity is 20 watts. Input impedance — 8 or 16 ohms. Overall diameter 12¼" depth behind panel 8½". Recommended for use with coaxial tweeter attachment or as the low frequency portion of a two-way speaker system. **35<sup>26</sup> NET**

**SPEAKER WIRE** — Two conductor, parallel rubber covered. Available in black, brown or ivory. Per 100 ft. **2<sup>23</sup>**

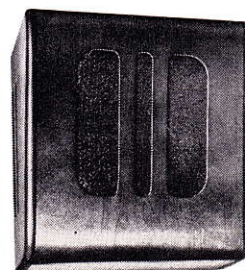
**VERI-THIN WIRE** — Flat ribbon-type two conductor wire for under carpet and similar applications. Polystyrene insulation. Per 100 ft. **2<sup>06</sup>**

## SPEAKER MATCHING TRANSFORMER



Handles 15 watts of undistorted audio with full frequency range. Will match 500 ohm output of amplifier to any speaker or group of speakers with voice coil impedance from 2 to 75 ohms. Recommended for use with long speaker lines and multiple speaker arrangements. **4<sup>70</sup>**

## Wall Speaker Baffles



Furniture finish baffles for extension speaker installations. Selected veneers strongly reinforced in rich dark walnut.

**WA-12** — for 12" diameter speakers. 14½" W x 16½" H x 8½" D. **7<sup>35</sup>**

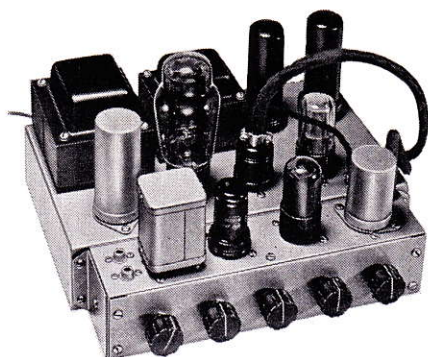
**WA-8** — for 8" diameter speakers. 10½" W x 11" H x 6½" D. **4<sup>05</sup>**



# AMPLIFIERS • AUTOMATIC CHANGERS FOR LP AND STANDARD RECORDS

## RAULAND HIGH-FIDELITY PHONO AMPLIFIER

A Revelation in Life-Like Re-creation of Records



**MODEL 1825** — This latest design by Rauland engineers has unusually fine tonal characteristics and flexibility of controls combined with extreme versatility of mounting. Frequency response is 40 to 20,000 cps.  $\pm 1$  db. Power output is 25 watts, 5% maximum distortion. Hum and noise level is 80 db. below rated output. Individual plug-in equalizers give exact tone balance for G.E. variable reluctance, Pickering magnetic and all crystal cartridges. Controls: Volume and on-off switch, bass boost and attenuation, treble boost and attenuation, calibrated sharp cut-off for efficient record noise suppression, phono-radio switch. Output impedances — 4, 8, 16, 250 and 500 ohms. Tubes: 1 - 6SC7, 1 - 6SN7, 1 - 6SL7, 2 - 6L6, 1 - 5U4G. For critical space requirements the preamplifier control box may be mounted apart from amplifier chassis. Space required for preamplifier control box — 11" x 2 3/4" x 5"; main power amplifier — 9 1/2" x 12 3/8" x 7 1/2". Shipping wt. 24 lbs. With tubes, screen cover, knobs, cables and instructions, less equalizers.

**76<sup>12</sup>**

181—Plug-in equalizer for G.E. cartridges.....**3.82**

182—Plug-in equalizer for Pickering cartridges.....**3.82**

183—Plug-in equalizer for crystal cartridges.....**5.09**

## MASCO 12 WATT AMPLIFIER WITH VOLUME EXPANDER



**MA-12EX**—For dynamic tone realism! Features distortion-free volume expander circuit for reproduction of music with original dramatic volume variations.

Separate bass and treble tone control circuits compensate all acoustic conditions. 12 watts balanced output with less than 5% distortion at full volume. Frequency response is 50 - 15,000 cps with tone controls set at normal. Preamplifier is equalized for new wide range magnetic cartridges. Tubes: 1 - 6SC7, 2 - 6SN7, 2 - 6SL7, 2 - 6V6, 1 - 5Y3. Output impedances 2, 4, 8, 15 and 500 ohms. Size is 13 x 8 x 8 3/8". For operation on 105-125 volts 60 cycles AC. Shipping wt. 20 lbs. Complete with tubes, cover, connectors and instructions.

**73<sup>50</sup>**

**MA-12HF** — Same as above without volume expander. Tubes: 1 - 6SC7, 2 - 6SL7, 2 - 6V6, 1 - 5Y3. With tubes, cover, connectors and instructions.

**55<sup>86</sup>**

## Webster-Chicago 246 3-SPEED RECORD CHANGER



A smoothly-operating changer mechanism giving excellent results with new LP 33 1/3 rpm and standard 78 rpm records. Plays 10-12" or 12-10" micro-groove or standard records. New RCA 45 RPM records play manually only. Unique cartridge and replaceable long-life stylus design with Tilt-O-Matic weight and Tandem-Tip needle control. A flip of a lever simultaneously selects proper stylus and needle pressure. Well-balanced 2-speed motor and weighted turntable assembly. Pickup arm comes to rest when last record is played. Mounting space required, only 13 1/2" x 12 3/8", 4 5/8" above and 2 3/4" below main plate. For 105-125 volts, 60 cycles AC. Shipping weight 15 lbs. With instructions and mounting hardware.

**28<sup>34</sup>**  
**NET**

## WEBSTER 146

A single-speed version of the model 246, for those who wish to play only standard 78 rpm recordings. High quality crystal cartridge. Fast, gentle automatic record change. Plays 10-12" or 12-10" records. Single records up to 12" may be played manually. Mounting dimensions: 13 1/2" x 12 3/8", 4 5/8" above and 2 3/4" below main plate. Shipping weight 15 lbs. Complete with instructions and mounting hardware.



**22<sup>12</sup>**  
**YOUR COST**

## Webster-Chicago 156-1



A highly popular standard - speed changer with featherweight pickup arm. Dependable, quiet and positive-acting. Plays ten 12" or twelve 10" records at one loading. Fast, 4-second change-cycle. Automatically shuts off after last record is played. Any discs up to 12" may be played manually. Non-jamming fingers protect the finest records, also handle warped and rough-edged discs. Requires 14" square mounting space, 8 1/2" clearance above and 2 1/2" clearance below base plate. 115 volts 60 cycles AC operation. With high quality crystal cartridge, mounting hardware, template and complete instructions.

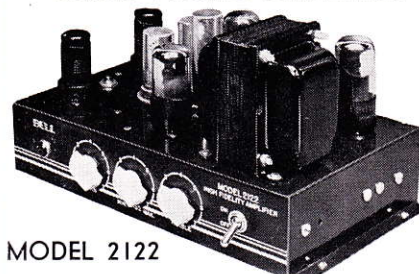
**24<sup>52</sup>**

## CHANGER BASES

Sturdy wood construction, brown leatherette finish. Rubber bumper feet. Requires only few wood screws to secure record changer in place. With cut-outs to accommodate Webster models 146, 156, 246 and 256. Specify changer type when ordering.

**3<sup>19</sup>**

## BELL WIDE-RANGE RADIO-PHONO AMPLIFIER



**MODEL 2122**

**10 WATTS** — Remarkable fidelity and quality, yet moderately priced and conveniently compact. Check these desirable features: Four separate inputs for radio, crystal pickup and two magnetic pickups; built-in preamplifier for each magnetic cartridge input; separate bass and treble tone controls; 10 watts at less than 3% distortion; 30-15,000 cps flat response with tone controls at normal; output impedances of 3.4-4, 6-8 and 15-18 ohms. Tubes: 1 - 5Y3GT, 2 - 6V6GT, 2 - 6SC7, 1 - 6SL7GT. Compact size only 7 1/2" deep, 6" high, 11 1/2" long. Weighs 8 1/2 lbs. For operation on 117 volts, 60 cycles AC. Complete with tubes and instructions.

**40<sup>86</sup>**  
**YOUR COST**

## V-M Duo-Speed Intermix



**MODEL**

**400C** — This versatile, well-designed automatic changer plays 10" and 12" records intermixed, either standard 78 rpm or the new 33 1/3 rpm micro-groove LP records. Each record is gently lowered, not dropped, to the turntable. Reversing the high fidelity cartridge automatically selects the proper needle pressure and correct stylus. This is accomplished by a simple control lever. Complete automatic shut-off after last record is played; arm returns to rest and motor switch slides to "off" position. Replaceable long-life semi-permanent styli. Extremely compact construction. Space required for mounting is 13 3/8" wide, 12 1/4" long; 5 1/8" above, 2 5/8" below base plate. For 105-125 volts, 60 cycles AC. Shipping weight 13 lbs. Complete with instructions and mounting hardware.

**33<sup>22</sup>**  
**NET**

## V-M Duo-Speed Changer

**MODEL  
800A**

78 rpm and 33 1/3 rpm for micro-groove and standard records. Simple lever in tone arm changes the cartridge and needle pressure adjustment when shifting from standard to micro-groove. Plays ten 12" or twelve 10" records. Single knob control for Off-Manual-Automatic-Reject. Mounting space required is 13 1/2" wide, 14" long; 5 1/4" above, 2 1/2" below base plate. Operates on 105-125 volts, 60 cycles AC. Shipping weight 13 lbs. Complete with instructions and mounting hardware.



**23<sup>65</sup>**  
**NET**

**MODEL 802—THREE-SPEED RECORD CHANGER!** Same size and appearance as Model 801. 10" and 12" records may be played automatically on 33 1/3 and 78 RPM. 7-inch records of 45 RPM and 33 1/3 RPM are played manually. Complete

**27<sup>34</sup>**  
**NET**

**SEE AND HEAR THIS EQUIPMENT IN OUR SOUND STUDIO**



# PHONO PREAMPLIFIERS • DYNAMIC NOISE SUPPRESSOR

## ASTATIC Magneto-Induction

### PICK-UP CARTRIDGE

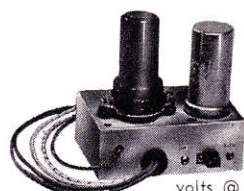


Employs a new concept in design of magnetic phono reproducers. Transcription quality reproduction; stable and troublefree throughout a long service life. Frequency response 50 to 12,000 cps, with unusual freedom from spurious peaks. Mu-metal housing reduces hum to negligible mounting centers. Permanent needle.

MI-2M — For standard groove recordings. 441

MI-2M-33 — For LP micro-groove recordings. With instructions & mounting hardware. 441

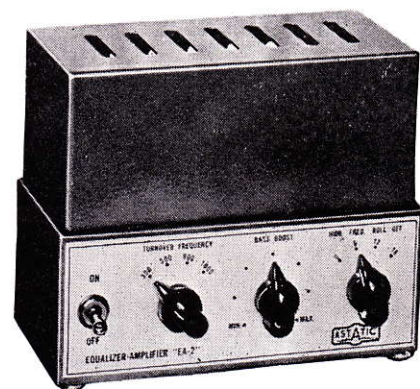
## ASTATIC Preamplifier



EA-1 — Equalized 2-stage preamplifier for use with magnetic cartridges. Equalizer circuit compensates for record characteristics to give properly balanced output. Requires 80 to 125 volts well-filtered D.C. and 6.3 volts @ .3 amp for 6SC7 tube. Has switch for high frequency cutoff. 1 volt output. Size 2 1/2" x 3 3/8". Complete with tube and instructions. 582

EA-3 — Same as EA-1, with built-in power supply. 938

## ASTATIC'S ADJUSTABLE Equalizer - Preamplifier



EA-2 — For magnetic cartridges. Freedom to select practically any response curve. Affords best reproduction from any particular record. Calibrated controls offer turn-over frequency selection at 300, 500, 800 and 1,000 cycles. Four positions of high frequency roll-off calibrated in decibels. High impedance output, 1.4 volts. For 105-130 volts, 50/60 cycles AC operation. Uses 6SC7 and selenium rectifier. Size 6 3/4" W x 5 1/2" H x 3 1/2" D. 2323

### CLARKSTAN Needle Pressure Gauge



301 — For measuring phono needle pressure. Reads 0 to 30 grams and 0 to 4 ounces on two scales. Checks weight with pickup in operating position. NET 150

## The Pickering Cartridge



Amazing fidelity with clean, distortionless output. 70 millivolts output at any frequency between 40 and 10,000 cps. Unique stylus guard into which jewel tip recedes protects stylus from abnormal shock. High impedance magnetic type. Designed to fit practically

any arm which will accommodate a crystal cartridge. Ingenious "Keystone Clip" permits adaptation to a variety of arm shapes and sizes, and allows adjustment of stylus position for minimum tracking error. Size 1 3/4" long, 3/4" wide, 3/8" thick.

S-120-M — Built-in sapphire stylus for standard groove records. 990

S-133-S — Built-in sapphire stylus for LP micro-groove records. 1500

D-120-M — Equipped with diamond stylus for professional use on standard groove records. Diamond stylus gives approximately ten times life of sapphire. 2490

D-140-S — Built-in diamond stylus for LP micro-groove records. 3600

R-150 — Replaceable stylus cartridge. Select the needle best suited for your needs. Less needle. 990

### STYLII FOR R-150 CARTRIDGE

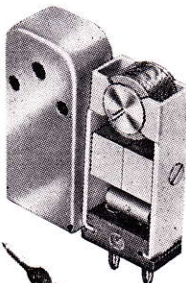
S-20 — .002" radius, sapphire	2.40
S-25 — .0025" radius, sapphire	2.40
S-30 — .003" radius, sapphire	2.40
D-20 — .002" radius, diamond	15.00
D-25 — .0025" radius, diamond	15.00
D-30 — .003" radius, diamond	15.00

## PICKERING 125-H Preamplifier

Designed for use with the Pickering cartridge. Compensates for average record characteristics and raises output level to 2 1/2 volts. High impedance output for 250,000 ohm normal grid input. Requires 90 to 300 volts D.C. @ 4 ma. and 6.3 volts @ .3 ampere, which can easily be obtained from associated amplifying equipment without affecting operation. Furnished complete with 6SL7GT tube, power input cable and complete instructions. 1950



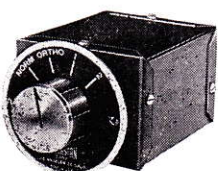
## Clarkstan RV Widerange Variable Reluctance Cartridge



201 — For standard or LP micro-groove records. Replaceable needle construction for instant interchangeability. Frequency response to above 12,000 cps. Needle force 5 to 7 grams for LP micro-groove, as low as 20 grams for conventional records. Output 60 millivolts. High impedance. 5, 50, 250 and 500 ohm models available on request. 1/2" mounting centers. Supplied with needle (specify .001", .0015", .0022", .0025" or .003" tip radius).

251 — Replacement needles for 201 RV cartridge. Specify radius desired. 240

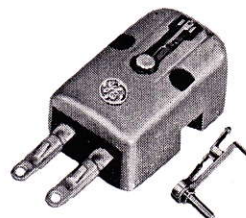
## Clarkstan 221 Equalizer



A high impedance input and output adjustable network, without amplification, for use with magnetic pickups. Will give proper response when used into normal high gain microphone input of amplifier. Has 4 positions for normal, NAB Orthoacoustic and two steps of high frequency cutoff. Turn-over frequency is 500 cycles. Panel mounting on 2 1/2" centers. 3/8" diameter center hole. With knob and dial plate. 1260

## NEW GENERAL ELECTRIC

### Variable Reluctance Cartridge with Replaceable Needles



Smaller size, lighter weight! New universal mounting permits this cartridge to be mounted in all pick-up heads with 1/2" mounting centers. Frequency response to

10,000 cps, with minimum distortion. Molded internal construction will not permit components to shift position.

RPX-040 — with .003" sapphire for standard groove records. 582

RPX-041 — with .001" sapphire for LP micro-groove records. 582

Replacement needles for above cartridges. EACH 206

RPX-035 — with .003" diamond stylus for standard groove records. 3629

RPX-036 — with .0025" diamond stylus for transcriptions. 3629

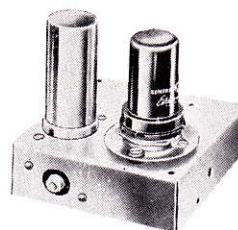
RPX-042 — with .001" diamond stylus for LP micro-groove. 3629

Diamond replacement stylus available. Prices on request.

## GENERAL ELECTRIC PREAMPLIFIER

### SPX-001

For use with Variable Reluctance Magnetic Cartridge described above. Increases output and equalizes cartridge for flat response. With leads for power take-off from any amplifier or radio. Size 3 5/8" x 3 5/8" x 4 1/2". Supplied with diagram and instructions for easy installation. Complete with 6SC7 tube. YOUR COST 582



UPX-003 — Same as above, completely self-contained with power transformer and selenium rectifier for operating directly from AC line. NET PRICE 938

## SCOTT DYNAMIC NOISE SUPPRESSOR



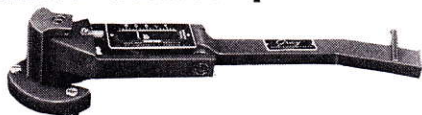
### MODEL 110-A

Will enhance your enjoyment of recorded music by materially reducing background noises, scratches and rumbles. The useful frequency range is 30 to 8,000 cycles. Can be used with any crystal pickup or preamplifier for magnetic cartridge. Supplied with adjustable suppression control at the end of remote-mounting cable. Has two independent gate circuits. Power supply is easily obtained from output tube socket of amplifier or radio employing 6V6, 6L6, 6F6, 6K6 or other similarly based tubes. Tubes used: 1 - 6SQ7, 2 - 6SG7. Dimensions: 7" long, 4 3/4" high, 3 3/4" deep. NET 4450

Special 110-A adapted for use with Brook 10C3 or 12A3 amplifiers. 5450



## GRAY Transcription Arm

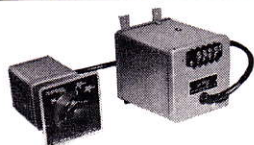


**MODEL 103-S** — Featherweight, magnesium, frictionless motion, adjustable stylus pressure, self-leveling base. Adopted as standard equipment for lateral recordings by CBS and ABC radio networks and numerous independent broadcast stations. For use with Pickering, G.E. and other wide range cartridges. Less cartridge.

**NET PRICE**  
**3935**

**3W-LP** Clip-on Attachment — Counterweight, adapts Gray 103-S arm for LP micro-groove records.

**377**



## GRAY 4-Position Equalizer

**MODEL 602** — 4-position equalizer (flat, N.A.B., micro-groove, etc.) expertly engineered for use with the G.E. Variable Reluctance Cartridge. Matches pickup to microphone channel. Output 250 ohms. Adopted by radio networks.

**COMPLETE**  
**5243**

## GENERAL ELECTRIC PICKUPS

**UPA-004**

A finely balanced pickup arm fitted with the G.E. RPX-040 variable reluctance cartridge. New type cartridge has replaceable stylus. Low friction type bearings and 1 oz. stylus pressure give excellent reproduction on standard records up to 12" diameter. Single hole mounting. Supplied with arm rest. Shipping wt. 12 oz.

**938**

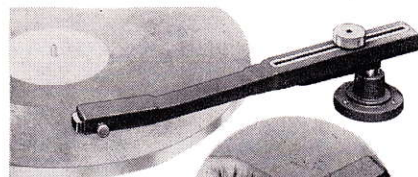
**For MICROGROOVE RECORDS**



**UPX-004** — The G.E. tone arm for LP microgroove records. 6 to 8 grams pressure, precision vertical and horizontal ball bearings. Complete with RPX-041 variable reluctance cartridge, .001 replaceable sapphire stylus. Single hole mounting.

**938**

## Clarkstan TRIONIC Pickup Arm



Instantaneous weight adjustment — positive and accurate. Slide-in cartridge holder provided with silver-plated plunger contacts, eliminates soldering or fastening of wires to cartridge terminals. Connection is made automatically when cartridge is put into place. Any cartridge not over 3/4" wide will fit, such as Clarkstan, G.E., Pickering, etc. Low arm resonance, precision bearings. Weight adjustable from 5 grams up. Height is fully adjustable. Finished in grey wrinkle with brushed chrome.

**Model 212** — for up to 17" records.  
**Model 213** — for 10" & 12" records.

**2250 EACH**

## ASTATIC PHONO PICKUPS

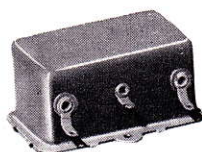


**FL-33** — A new pickup specifically designed for use with micro-groove records. Unique plug-in cartridge gives clean output with 30 to 10,000 cps. response. Permanent sapphire stylus .001" radius and only 5 grams pressure. Novel design of base eliminates tone arm resonance and assures perfect tracking. Can be adapted to play standard records by interchanging with LP-78 cartridge — no weight adjustments necessary. Complete with LP-33 cartridge, mounting hardware and instructions.

**876 NET**

**LP-78** — A wide range low distortion cartridge, fits into FL-33 arm. No connections, just plug in! Converts FL-33 to play standard records.

**523**



## FL FILTER

A simple equalizer-filter for use with FL-33 pickup, for best performance on LP micro-groove records.

**406**

## Astatic 400 Series Transcription Pickups



Finely balanced for lateral transcriptions up to 16" diameter. 12 1/2" long.

**400-MI-2M-33** — Uses magneto-induction cartridge. Frequency response 50 to 12,000 cps. Needle pressure adjusted for LP micro-groove recordings. Output of 28 millivolts requires preamplification.

**NET 1388**

**400-MI-2M** — Same as above, but with stylus and needle pressure for standard groove recordings.

**1388**

**400-QT-J-33** — Incorporates QT-J-33 crystal cartridge with jewel needle for LP micro-groove records. Response 50 to 10,000 cps., 0.75 volts output. Does not require preamplification.

**1470**

**400-QT-J** — Same as above, but with stylus and needle pressure for standard groove recordings.

**1470**

## ASTATIC 510 SERIES



For 10" and 12" records. Correct tracking assured by offset head on die-cast arm. 7 3/4" long.

**510-MI-2M-33** — Has magneto-induction cartridge. Frequency response 50 to 12,000 cps. Needle pressure adjusted for LP micro-groove records. Output 28 millivolts requires preamplification.

**550**

**510-MI-2M** — Same as above, but with stylus and needle pressure for standard groove recordings.

**491**

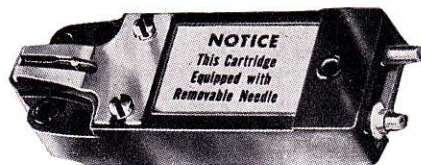
**510-QT-J-33** — Incorporates QT-J-33 crystal cartridge with jewel needle for LP micro-groove records. Response 50-10,000 cps., 0.75 volts output. Does not require preamplification.

**632**

**510-QT-J** — Same as above, but with stylus and needle pressure for standard groove records.

**573**

## ASTATIC QT SERIES



Wide range crystal cartridges, 50-10,000 cps. Extremely low needle tail. Special construction offers permanent needle performance with replaceable needle advantage. Output — 0.85 volt. Standard 1/2" mounting centers.

**QT-3-J** — With sapphire needle for standard groove records.  
**QT-J-33** — With sapphire needle for LP micro-groove records.

**523 EACH**

## Astatic QT Replacement Needles

**QT-J** — Sapphire tipped for QT-3-J cartridge.

**147**

**Q-33-J** — Sapphire tipped for QT-J-33 cartridge.

**1 EACH**

## Astatic QC "Glennite" Cartridge

Employs the amazing, new piezoelectric ceramic "Glennite," Unaffected by heat, humidity and abnormal physical abuse. Ideal for extreme climates. Circuit requirements same as for regular crystal cartridges. Response is 50 to 10,000 cps.; output is .5 volt. QT type housing. With permanent sapphire stylus, for standard groove recordings. 1/2" mounting centers.

**523**

## LIVINGSTON Universal 16" Pickup Arm



Balanced for proper tracking on both standard groove and LP micro-groove recordings. Needle pressure adjustable 6 to 30 grams. Height is fully adjustable. Accommodates all cartridges with 1/2" mounting centers. Precision bearings throughout. Non-resonant construction. Smooth grey finish. For records up to 16" diameter. Less cartridge.

**1495 NET**



**MODEL A-16**

Straight professional arm, for standard groove records up to 17". Low friction horizontal and vertical bearings, adjustable stylus pressure, adjustable height. Suitable for all cartridges with 1/2" mounting centers. Overall length — 15 1/2".

**1295 NET**

**MODEL A-12** — Same as above, for up to 12" diameter records. Overall length — 13 1/4".

**995 NET**

## SHURE PICKUP for LP MICRO-GROOVE RECORDS



## MICRO-GROOVE RECORDS

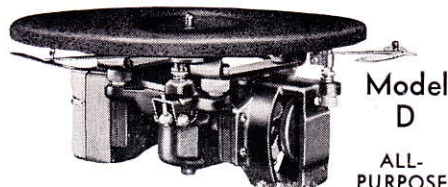
**900-MG** — Engineered for fine results with new LP micro-groove records. Properly designed .001" radius long-life stylus with special high compliance crystal cartridge, 1 volt output. For 10" and 12" micro-groove records. Single hole mounting. Complete with cartridge, arm rest and mounting instructions.

**735**



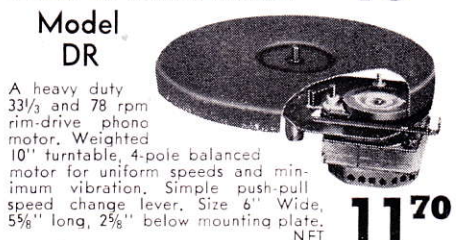
# PHONO MOTORS • DISC RECORDERS • MICROPHONES

## GENERAL INDUSTRIES



**Model D**  
**ALL-PURPOSE**  
2 speeds, 78 and 33 1/3 rpm, governor-controlled. Constant speed of 45 rpm, is obtained by simple use of speed regulator and stroboscope, which we supply. Silent gears fully enclosed in oil. Has speed regulator and speed-change lever. Size 8 1/2" long, 5 1/2" wide, 3 3/4" deep below mounting plate. For 115 volts 50/60 cycles AC. With 12" turntable and mounting hardware.

**16<sup>45</sup>**



**Model DR**  
A heavy duty 33 1/3 and 78 rpm rim-drive phono motor. Weighted 10" turntable, 4-pole balanced motor for uniform speeds and minimum vibration. Simple push-pull speed change lever. Size 6" wide, 5 5/8" long, 2 3/4" below mounting plate.

**11<sup>70</sup>**

**Model DM** A compact, smooth-operating two-speed (33 1/3 and 78 rpm) phono motor. Supplied with 9" turntable, and 2-pole balanced motor. Length—3 1/8"; width—2 1/4"; depth—2 3/8" below mounting plate.

**6<sup>75</sup>**



**REK-O-KUT**

**M-12** — A new 12 inch overhead cutting mechanism the equal of those previously available only for 16" turntables. Streamlined housing encases all moving parts. 8 ohm magnetic cutter is flat from 40 to 7,000 cps. Masterpro M-12 is strictly professional quality scaled down in size. Less recording motor and turntable.

**89<sup>50</sup>**

**TR-12** — 2-speed recording motor and turntable similar to T-12, but equipped with larger base plate for precision-mounting the M-12 overhead recording assembly, as shown above.

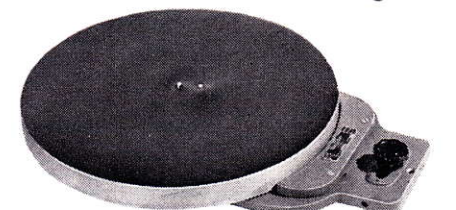
**89<sup>50</sup>**

**T-12** — 12" dual speed, 78 and 33 1/3 rpm transcription motor and cast aluminum alloy turntable. Self-lubricating and constant-speed motor. Overall dimensions — 15" x 12 3/8". Baseplate — 11 1/4" x 9".

**79<sup>50</sup>**

45 RPM idler wheel for TR-12 or T-12.

**6<sup>00</sup>**



**G-2** dual-speed transcription turntable for vertical and lateral recordings. Consists of 15 1/2" aluminum turntable, two idlers, heavy duty motor which maintains a constant speed that betters the 1/2 of 1% regulation required by the N.A.B. Extremely quiet operation.

**125<sup>00</sup>**

45 RPM idler wheel. Net **7<sup>50</sup>**

**NEW**

## PRESTO K-10 PROFESSIONAL DISC RECORDER



A famous **STANDARD** in disc recording brought up-to-date with the addition of microgroove recording features. Records and plays back at 78 and 33 1/3 rpm. Cuts 112 lines per inch outside in or inside out for standard records; 224 lines per inch for long-playing microgroove records. Response of recordings and playback is 80-8,000 cps. Has phono-mike fader and tone controls. Uses any high impedance microphone. Powerful constant-speed, balanced motor. Heavy duty 8" speaker. Playback arm adjustable for standard or LP recordings. Case covered in deluxe grey leatherette. Size 19 1/2 x 15 1/2 x 14 inches. Shipping weight—69 lbs. For operation on 115 volts, 60 cycles AC.

**348<sup>00</sup>**

## REK-O-KUT "Challenger"



**PROFESSIONAL RECORDER**

12" 2-speed recorder with precision overhead lathe mechanism. Automatic speed change from 78 to 33 1/3 rpm. Machined and balanced aluminum turntable, cast aluminum frame. Heavy duty precision-balanced motor. High fidelity 8" speaker. Overhead feed mechanism incorporates a safety cutting head feature, which lifts cutter from record as center of record is approached, thus preventing double cutting and damage to stylus. Wide range, distortion-free amplifier. Inputs for high impedance microphone, phono and radio. For 115 volts 60 cycles AC. Size 25 x 22 x 12 inches, weighs 67 lbs. Shipping weight — 80 lbs.

**329<sup>95</sup>**

**M-12-192** interchangeable feed-screw, for microgroove 192 lines per inch. Specify outside-in or inside-out. Also for use with M-12 overhead assembly. Net **17<sup>95</sup>**

45 RPM idler wheel, interchangeable with 33 1/3 rpm wheel. Net **6<sup>00</sup>**

## REK-O-KUT Precision PHONO MOTORS



Available in three different dual-speed combinations to play Columbia long-playing, RCA long-playing and standard records. Lathe turned and balanced 12" turntable and constant-speed, vibration-free motor. Machined turntable shaft and bearing assembly. Instantaneous speed shift. Finished in brown hammertone. Length — 12"; width — 15"; height — 1 3/8" above, 5" below motor panel.

LP-12 — 78 and 33 1/3 rpm  
LP-35 — 45 and 33 1/3 rpm  
LP-47 — 45 and 78 rpm

**39<sup>95</sup>**  
EACH

## SHURE 55

**Super-Cardioid "Unidyne" Dynamic Microphone**



Outstanding for broadcast-quality recording and public address work. Smooth, peak-free response from 40 to 10,000 cps. Output level is -55 db. Multi-impedance switching for 35 to 50 ohms, 150 to 250 ohms and high impedance output. Swivel for tilting head to 90°. With 25 ft. shielded cable and attached microphone plug.

**36<sup>75</sup>**

## SHURE 737-A

**New Monopex Super-Cardioid**

High output and unidirectional crystal microphone, with wide-angle front response. Sound from rear reduced 15 db., random pickup reduced 73% for greater volume without feedback. Frequency response is 60 to 10,000 cps., ideal for use with recorders and better P.A. systems. Hi-Z output, -53 db. With 20' shielded cable.

**20<sup>87</sup>**

S-36-A desk stand, illustrated. **2<sup>61</sup>**

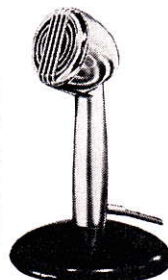


## ASTATIC 200

**"Velvet Voice" Crystal Microphone**

A popular priced, wide-range, high output crystal mike. Ideal for use with home recorders, disc or wire types. Hi-Z output, -50 db., 30 to 10,000 cps. With built-in sturdy handle and separate "quick-lock" detachable brown enamel base. Standard 3/8" — 27 thread on handle for floor stand use. With 15 ft. shielded cable.

**8<sup>20</sup>**



## ELECTRO-VOICE 915

**"Century" Crystal Microphone**

Amazingly versatile — can be used in any position; on desk or table (with or without desk stand), on floor stand, in the hand, bracketed to a wall or suspended overhead. Supplied with removable adaptor as shown. High impedance moisture-sealed crystal, response 60 to 7,500 cps. Output is -50 db. Lustrous grey-brown finish. With 7 ft. shielded cable.

**5<sup>88</sup>**



## BRUSH BA-106

A non-directional crystal microphone of excellent quality and high output level. Ideal for use with magnetic and disc recorders. Table stand included, 8 ft. shielded cable.

**11<sup>61</sup>**



## MICROPHONE STANDS

**Standard 3/8" — 27 thread, fit all microphones shown above**  
**DESK STAND**—Polished chrome tubing, 6" diameter base finished in grey wrinkle. Height—6".

**1<sup>62</sup>**

**FLOOR STAND**—Fully adjustable height from 35 to 65". No-slip clutch action. Chrome tubing, 10" grey wrinkle weighted base.

**4<sup>95</sup>**



# WIRE RECORDERS AND RECORDING ACCESSORIES

## WEBSTER-CHICAGO ADVANCED

### MODEL 180

#### Portable Wire Recorder with Exclusive Record-O-Magic Controls

The new Webster-Chicago "Electronic Memory" is easy to use! Automatic Stops shut off motor before wire can run off either spool in either direction; resets automatically when Lock-fast Operating Lever is returned to center position. Push-pull output Expanded Range Amplifier allows recording of voice and music with excellent fidelity. Built-in Elapsed Time Indicator permits accurate timing, cueing and editing. New, powerful erase circuit. Removable Take-up Drum permits fast reloading of recordings longer than one hour. Has radio-phonograph input and outlets for external speaker or amplifier. Compact luggage case measures 17 3/8" x 7 1/2". Carrying weight is 27 lbs. Operates on 105-120 volts, 50 or 60 cycles AC. Complete with microphone, 3 spools of recording wire and instructions.



PRICE  
**149<sup>50</sup>**



### MODEL 178 Adds Magnetic Recording to Your Radio or Amplifier

A valuable recording accessory for custom-built radio-phonographs. Has same mechanism and essential circuits as model 180. Built-in recording level meter for precise monitoring. Convenient push-button controls for recording from microphone, radio tuner or record player. Plays back through your high fidelity custom installation or through any radio or amplifier. Compact, size 11" x 11 3/8" x 5 5/8". For 105-120 volts 50/60 cycles AC. Complete with microphone, 15 minute spool of wire and full instructions.

PRICE  
**107<sup>50</sup>**

### DISC RECORDING ACCESSORIES Blank Recording Discs

Audiorec YELLOW LABEL—Double faced .054" thick, uniformly coated on aluminum.

	Each	Box of 25
8"	.70	10.50
10"	.90	13.50
12"	1.50	22.50
16"	2.70	40.50

Audiorec RED LABEL—Acclaimed throughout the recording profession for unexcelled quality. Double sided, aluminum, finest recording discs obtainable.

	Each	Box of 25
8"	.80	12.00
10"	1.15	17.25
12"	1.85	27.75
16"	3.40	51.00

## WEBSTER-CHICAGO

### Wire Recording Accessories

#### RECORDING WIRE

Pre-tested stainless steel with high tensile strength. Diameter .0036" permits 1 hour continuous recording without wire spillover. Individually packaged.

W-173 — 15 minute spool	<b>1.96</b>	W-175 — 60 minute spool	<b>4.90</b>
In lots of 10, ea.	<b>1.27</b>	In lots of 10, ea.	<b>3.18</b>
W-174 — 30 minute spool	<b>2.94</b>	SP-077 — Empty 1/2 hr. spool, bakelite	<b>.39</b>
In lots of 10, ea.	<b>1.91</b>	In lots of 10, ea.	<b>.25</b>
SP-177 — Empty 1 hr. spool, metal	<b>.73</b>		
In lots of 10, each	<b>.47</b>		

AL-177—Wire Spool Album, holds 10 spools for ready reference. Size 6 1/4" x 4 1/2" x 3 3/8". **1.22**

MS-111 — Microphone Stand, converts Webster-Chicago hand microphone to table stand type **1.71**

CA-243 — Input Cord Assembly, 10 ft. length, for recording direct from radio or phonograph. For use with Model 180 or 178. **2.45**

CA-924—Output Cord Assembly, connects Model 180 to play through radio or external amplifier **1.96**

CA-235 — 15 ft. extension cable for Webster-Chicago microphone **3.43**

TD-422 — Removable Take-up Drum, for Model 180 to permit fast reload on programs longer than 1 hour. **2.45**

TD-423 — Same as above, for Model 178 **2.45**

MODEL 183 — Control box and recording level indicator. Push-button controls for Model 180 selects radio, microphone or playback through radio or external amplifier. Sensitive recording level meter calibrated for precise recording volume. **28<sup>91</sup>**

RH-380 — New type recording head as used on Models 180 and 178. Recommended for replacement on older models of Webster-Chicago wire recorders. Gives better quality and positive erase — eliminates need for extra erase gadgets. **7<sup>35</sup>**

SD-30 — Slide Drawer Hardware Kit, roller tracks for slide-in mounting of Model 178 or record changers. **1<sup>47</sup>**

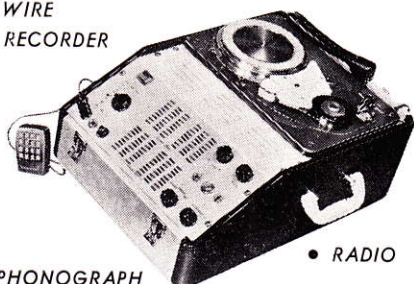
### WEBSTER-CHICAGO Long Life

PLAYBACK NEEDLES — For record changers and pickup arms shown in this catalog.

NE-37 Teardrop nylon with rose jewel tip	1.71
NE-34 Black nylon with alloy tip	2.45
NE-33 Ivory nylon with jewel tip	3.43
NE-44 Nylon with alloy tip, for microgroove	2.94
214 Tandem tip for replacement in Webster 256-1 and 246-1, nylon shank	5.39
215 As above, with metal shank	3.92

## ASTRA-SONIC RECORDER

• WIRE  
RECORDER



• PHONOGRAPH  
• TIMING INDICATOR

**MODEL 748 — 4-way wonder**, for high quality recording on wire of any source of sound. Synchronized timing indicator for accurate cueing and editing. Built-in record player permits instantaneous recording from records to wire; also for use as a regular player. Built-in superheterodyne radio for recording off-the-air programs or for just plain listening pleasure. Three separate jacks permit use of external speaker, amplifier and FM tuner. With crystal microphone, long-life phono needle, 2 spools recording wire, smart accessory case for wire and microphone, built-in radio antenna.

Size 9 5/8" x 14 5/8" x 19 1/8".  
Carrying wt. 34 lbs.

PRICE  
**199<sup>50</sup>**

## EICOR TAPE RECORDER

For Portraits in Music and Voice

- PORTABLE; LIGHT WEIGHT
- RECORDS AND PLAYS FULL HOUR
- TWO-TRACK RECORDING ON SAME TAPE
- 5 TUBE A.C. AMPLIFIER
- SENSITIVE CRYSTAL MICROPHONE
- INSTANT ERASURE OF UNWANTED RECORDING
- 6-INCH ALNICO V SPEAKER
- THOUSANDS OF PLAYINGS OF RECORDINGS YOU KEEP.

Remarkable features of the Eicor Tape Recorder include amazing fidelity and simplicity of operation. Records with microphone or directly from your radio; easy to coordinate with your radio-phonograph system. Convenient connections for larger external speaker or through your own high quality amplifier. • Fine craftsmanship and heavy duty construction is evident throughout. This recorder will give you years of pleasure and your own library of finely recorded music, important events and happenings of personal interest.

Excellent designed amplifier incorporates 5 tubes: 2 — 6SJ7, 1 — 6J5GT, 1 — 6K6GT, 1 — 6X5GT. Equipped with neon volume indicator for proper recording level. Exceedingly low hum and noise level. Supplied with profusely illustrated and detailed 24 page instruction manual to help you enjoy to its fullest extent this new magnetic recording magic. • In handsome rippled black carrying case with white strip trim, complete with high quality crystal microphone, 1 roll of tape and connecting cable for radio recording. Size 14 3/8" W x 12" D x 8 1/2" H. Carrying wgt. is 27 lbs.



**124<sup>95</sup>**

SEE PAGE 3 FOR RECORDING TAPE AND TAPE RECORDING ACCESSORIES