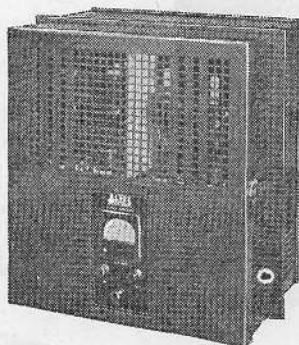


# Amplifiers

# ALTEC

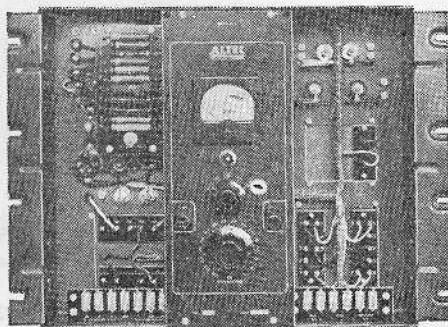
LANSING CORPORATION

1161 N. Vine Street  
Hollywood 38, Calif.  
161 Sixth Avenue  
New York 13, N.Y.



**A-256B AMPLIFIER**

Designed for exacting broadcast, public address and recording needs where high power is required. May be operated in parallel to produce 150 watts.



**A-287W AMPLIFIER**

The A-287W Amplifier is available for use where very high audio power is required. It is of the single stage push-pull type. Self-contained power supply. May be operated in parallel to produce 500 watts. Must be operated from driver amplifier such as A-127.

	A-127	A-287W AMPLIFIER	A-256B AMPLIFIER
<b>GAIN</b>	Max. 66 db from 100,000 ohm input.	12 db from 3000 ohm imp. driver.	50db; 500 ohm input. Bridging input 5000 ohms. 20 db gain control in two db steps.
<b>FREQUENCY RANGE</b>	±1 db 20-20,000 cps.	±1 db 100-10,000 cps.	±1 db 20-20,000 cps.
<b>POWER OUTPUT</b>	15 watts at less than 8% intermodulation or 2% tot. harm.	250 watts at less than 5% tot. harm. 100-10,000 cps.	65 watts at 8% intermod. 75 watts at 2% tot. harmonics.
<b>NOISE LEVEL</b>	—42 dbm (ref. .001 watt)	—20 dbm (ref. .001 watt).	—45 dbm (.001 watt ref.).
<b>INPUT IMPEDANCE</b>	Grid input 100,000 ohms.	3000 ohms CT. Available with 10 or 20 ohms. Requires 15 watts driver power.	500 ohm. 5000 ohm bridging.
<b>OUTPUT IMPEDANCE</b>	10 or 20 ohms.	Tapped for loads from 2.25 to 20 ohms.	Taps for 4, 8 and 16 ohm loads.
<b>POWER REQUIREMENTS</b>	105, 117 or 130 volts, 50-60 cycles, 110 watts. Fused.	105, 117 or 130 V, 50-60 cycles, 700 watts. Fused.	105, 117 or 130 V, 50-60 cycles, 200 watts. Fused.
<b>POWER AVAILABLE EXTERNALLY</b>	6.3 V AC at 2.5 amp.; 850 V DC at 20 ma.	None.	.6 amp at 6.3 V. Fil. and 5 ma at 300 V.
<b>TUBES USED</b>	1-6J7, 1-6J5, 2-6L6G, 1-5U4G.	2-805; 2-866A.	2-6SN7; 2-6SJ7; 2-807; 2-5R4GY; 4-VR150/OD3.
<b>DIMENSIONS</b>	H-8 3/4"; W-19"; D-7".	H-19 1/4"; W-19"; D-12 1/2".	H-14"; W-19"; D-9".
<b>WEIGHT</b>	18 lbs.	141 lbs.	60 lbs.
<b>LIST PRICE</b>	\$246.67.	\$913.33.	\$393.33.

\*Particularly suitable for driving A-287-W 250-watt Class B amplifier; provided with output transformer with tertiary winding for inverse feedback.

## Pre-Amplifiers, Mixers and Power Supply (not illustrated)

Perfect broadcast components for pre-amplifying and mixing microphones and variable reluctance pickups. Designed for fabrication into rack or console. May be mounted in 3 1/2" chassis. Mixing control part of A-424A and A-425B. Same dimensions: L-10 1/4"; W-2 3/4"; D-7 3/4".

**A-425B** Pre-mixing amplifier for microphones. Drives A-426B. 30, 250, 500 ohm inputs; 47 db gain; 22,000 ohm output imp.; ±1 db 20-20,000 cps; 10 dbm at 2% tot. harm. and 1% IM; noise —73 dbm; 6.3 vac at .6 amp., 300 vdc at 7.5 ma req. pwr. Tubes: 2-6J7 or 1620. List Price: \$138.00

**A-424A** equalized for v.r. pickups; drives A-426B. Operation same as A-425B. 25 db gain; noise —72 dbm; output 12 dbm at 4% IM and 1% tot. harm.; load imp., 22,000 ohms; 6.3 vac at .6 amp. 300 vdc at 10 ma req. pwr. Tubes: 2-6J7 or 1620. List Price: \$132.00

**A-426B** Line Amplifier. 20,000 ohm control input; gain 56 db; output imp. 30, 250, 500 ohm; ±1 db 40-15,000 cps; noise —60 dbm; 6.3 vac at .6 amp, 300 vdc at 12 ma, rep. pwr. Tubes: 1-6J7 or 1620, 1-6J5. List Price: \$128.00

**P-505B** supplies all power for A-424A, A-425B, A-426B. Tube: 1-6X5GT. List Price: \$48.00

# Amplifiers

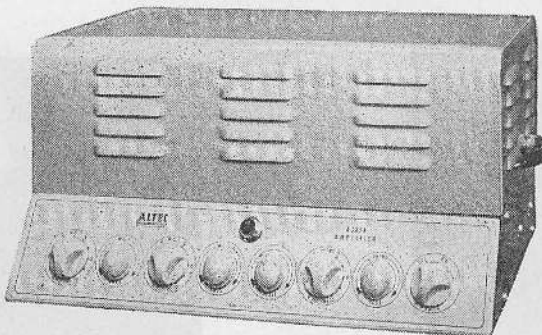
# ALTEC

LANSING CORPORATION

1161 N. Vine Street  
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161 Sixth Avenue  
New York 13, N.Y.

## A-323B AMPLIFIER

2 channel 18 watt general-purpose portable amplifier designed for high quality reproduction of speech and music from records, radio and microphone.

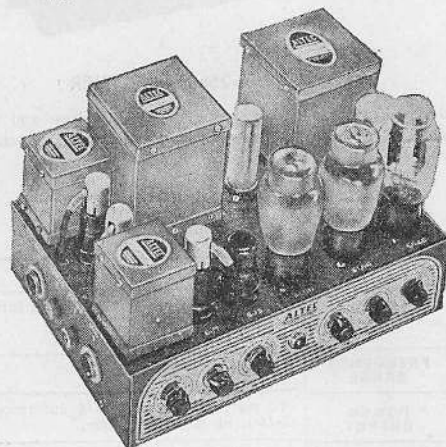
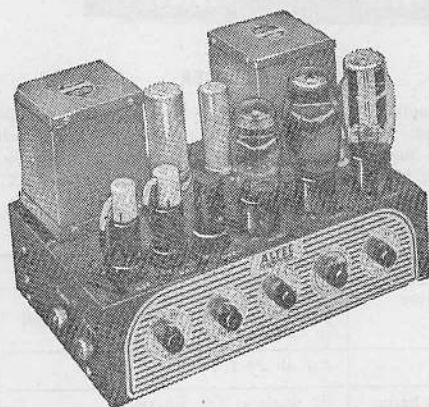


## A-324A AMPLIFIER

4 channel portable 18 watt Public Address amplifier designed for use in high quality public address and music systems.

## A-332A AMPLIFIER

Finest quality 18 watt portable Public Address amplifier designed for use with the 21B Microphone, eliminating need for external power supplies. Two independent microphone inputs plus one for variable reluctance pickup. Each input has separate gain and bass controls. Overall high frequency droop control provided.



## SPECIFICATIONS

	A-323B	A-332A	A-324A
<b>GAIN</b>	117 db (phono input). 77 db (radio input).	110 db. (mic. No. 1; 110 db. (mic. No. 2); 106 db (phono).	102 db (mic. No. 1 input) 102 db. (mic. No. 2 input) 72 db (phono inputs Nos. 1 & 2).
<b>GAIN CONTROL</b>	Continuously variable.	Continuously variable.	Continuously variable. Individual controls for microphone inputs. Dual fader type control for phono inputs.
<b>FREQUENCY RESPONSE</b>	20-20,000 cycles $\pm 1$ db.	See Literature.	20-20,000 cycles $\pm 1$ db.
<b>POWER OUTPUT</b>	18 watts.	18 watts.	18 watts.
<b>DISTORTION</b>	2% total harmonics—less than 8% IM.	2% total harmonics.	2% total harmonics—less than 8% IM.
<b>NOISE LEVEL AT FULL GAIN</b>	—30 db (.006 watt reference) high gain input; —50 db (.006 watt reference) low gain input.	—27.2 dbm on mic. channel's (.001 watt ref.); —22.8 dbm on phono (.001 watt ref.).	—20 db (.006 watt reference) microphone input; —45 db (.006 watt reference) phono input.
<b>INPUT IMPEDANCE</b>	Both inputs, phono and radio, are 500,000 ohms.	For Altec 21B mic. and v.r. pickup.	Microphone No. 1 30-250-500/600 ohms; Microphone No. 2 30-250-500/600 ohms; Phono Nos. 1 and 2 500,000 ohms.
<b>OUTPUT IMPEDANCE</b>	2.5-5, 8-12, 16-24 ohms.	2, 4, 8, 16 ohms.	2.5-5, 8-12, 16-24 ohms.
<b>POWER SUPPLY</b>	110-125 V. AC, 50-65 cycles, 110 watts. Fused.	117 V. AC, 50-60 cycles.	110-125 V. AC, 50-60 cycles. Fused.
<b>TUBES USED</b>	2—6J7, 1—6J5, 2—6L6G, 1—5U4G.	4—6SJ7; 2—6J5; 2—6L6G; 1—5U4G.	3—6J7, 1—6J5, 2—6L6G, 1—5U4G.
<b>DIMENSIONS</b>	9" x 12" x 9" high including cover.	W-17"; D-11"; H-9" including cover.	9" x 12" x 9" high including cover.
<b>WEIGHT</b>	12 lbs.	35 lbs.	11 lbs.
<b>FINISH</b>	Dark Grey Crackle, Chrome Operating Panel.	Grey.	Dark Grey Crackle; Chrome Operating Panel.
<b>LIST PRICE</b>	\$177.32.	\$364.00.	\$240.00.

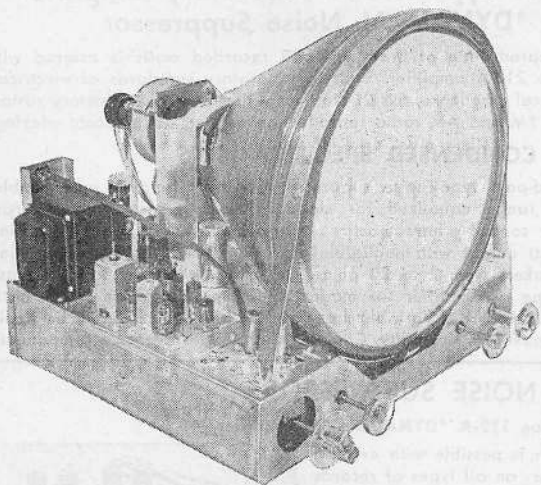
## TV and Home Music Systems

# ALTEC

LANSING CORPORATION

1161 N. Vine Street  
Hollywood 38, Calif.

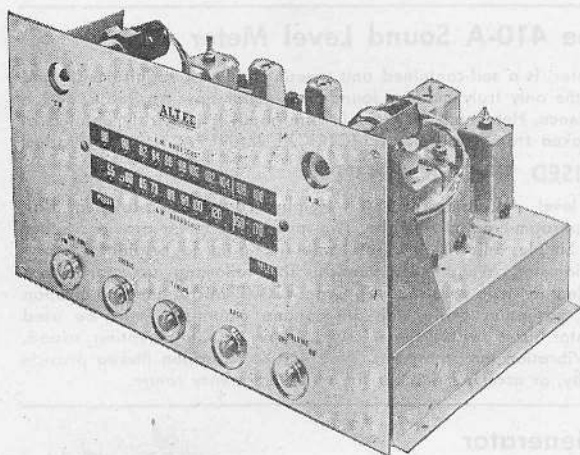
161 Sixth Avenue  
New York 13, N.Y.



ALC-205

Complete TV receiving chassis with 16" picture tube is designed for installation in custom-built units, or for use with Altec Home Music Systems. Positive tuning. Automatic gain control. Two audio outputs: one drives speaker directly; other designed for connection to ALTEC ALC 101B Tuner or to high impedance input of an audio amplifier with associated speaker. ALC-205 does not include speaker. Dimensions: H-20 1/4"; D-20 1/4"; W-20 1/4".

Customer net price: \$376.00



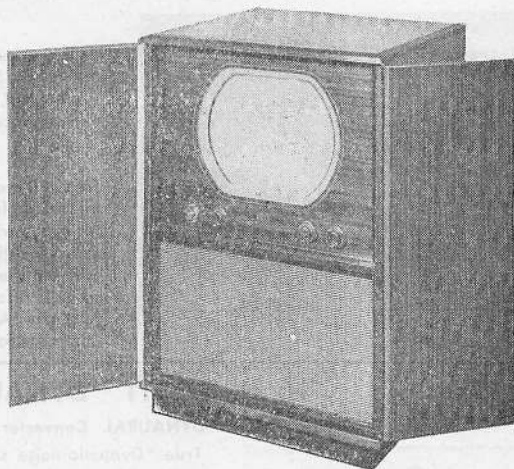
ALC-101B FM-AM RADIO TUNER

Affords increased sensitivity and optimum reception quality on both AM and FM bands. Superior tuned radio frequency (TRF) circuit is provided for AM band. Separate tuning eyes for AM and FM. Specially equalized phono input circuit for magnetic pickup. Stepped low-pass filter to suppress surface noise, enhance record quality. Front panel finished in antiqued brass houses all AM-FM Phono-TV switches as well as tone controls and dials. Dimensions: H-9 1/2"; W-15"; D-10". P-503 Power Supply is required only when 101-B Tuner is not used with A-323C Amplifier.

Customer net prices:

ALC-101 Tuner & A-323C Amplifier, \$357.50

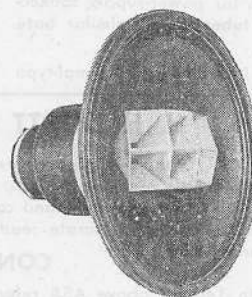
ALC-101 Tuner & P-503 Power Unit, \$299.00



ALC-206

Combines ALC-205 TV chassis with the ALTEC 400B loudspeaker, in a beautiful console cabinet available in mahogany or blonde oak. Unit provides professional sound and picture quality.

Customer net price: \$469.00



### 604B DUPLEX SPEAKER AND N-1000B DIVIDING NETWORK

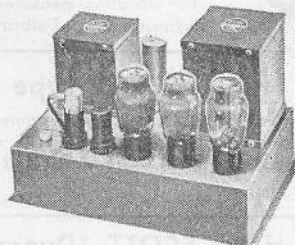
Universally regarded as the standard for optimum quality reproduction, the 604B Duplex Speaker affords a complete two-way sound source combining high and low frequency units in a single metal frame. Excellent frequency response (30 to 16,000 cps) more than spans FM range. Built-in multicellular horn loads high frequency unit; properly distributes the "highs."

Dimensions: Dia. 15 3/8"; Depth 11 1/2".

Customer net price: \$125.00

N-1000B Dividing Network, designed for crossover frequency of 1000 cps, insures that low frequency cone operates as a stiff piston.

Customer net price: \$18.00



A-323C AMPLIFIER

Specially designed for use with other components of the Home Music System, the A-323C provides faithful, distortion-free amplification of audio outputs from the tuner, record changer and TV chassis (ALC-205). Amplifier utilizes full-range response and dynamic resources of Duplex speaker. Undistorted 18 watt output is more than adequate for any home installation.  $\pm 1$  db frequency response from 20 to 20,000 cps. Dimensions: H-8 1/2"; W-13"; D-9".

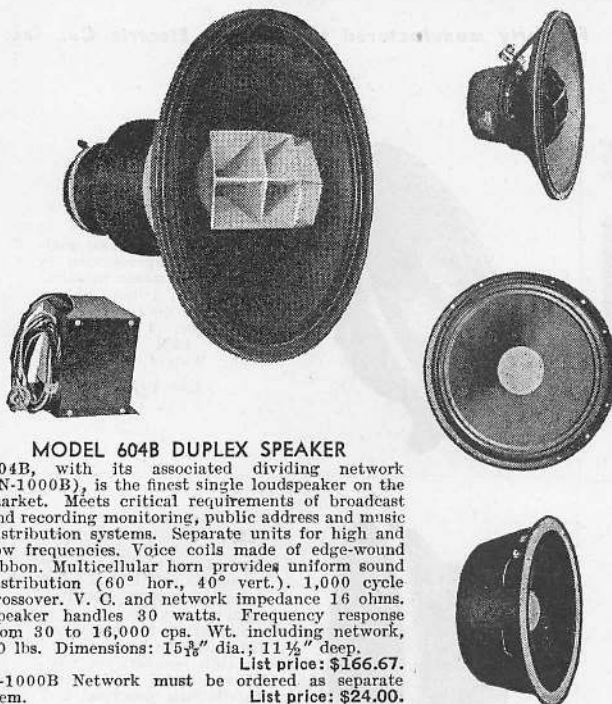


## Speakers, Cabinets, Multicellular Horns

# ALTEC

LANSING CORPORATION

1161 N. Vine Street  
Hollywood 38, Calif.  
161 Sixth Avenue  
New York 13, N.Y.



### MODEL 604B DUPLEX SPEAKER

604B, with its associated dividing network (N-1000B), is the finest single loudspeaker on the market. Meets critical requirements of broadcast and recording monitoring, public address and music distribution systems. Separate units for high and low frequencies. Voice coils made of edge-wound ribbon. Multicellular horn provides uniform sound distribution (60° hor., 40° vert.). 1,000 cycle crossover. V. C. and network impedance 16 ohms. Speaker handles 30 watts. Frequency response from 30 to 16,000 cps. Wt. including network, 40 lbs. Dimensions: 15 $\frac{3}{8}$ " dia., 11 $\frac{1}{2}$ " deep.

List price: \$166.67.

N-1000B Network must be ordered as separate item. List price: \$24.00.

### 603B MULTICELL DIA-CONE SPEAKER

The 603B is the unanimous choice of those who require an economical, high-quality speaker. Offers high efficiency, broad distribution, wide frequency response, freedom from distortion. 3" 8 ohm voice coil is edge-wound. Dia-Cone principle provides extended frequency response. Multicellular horn loads high frequency diaphragm and distributes sound over 60° hor., 40° vert.: 15" cone insures full bass reproduction and 25 watt power-handling capacity. Weight: 18 lbs. Diameter: 15 $\frac{3}{8}$ ". Depth: 6 $\frac{1}{2}$ ".

List price: \$84.00.

### 600B DIA-CONE SPEAKER

The 600B meets the needs of those whose discriminating tastes demand faithful reproduction of sound. Efficiency, small space requirements, light weight and superior quality of reproduction, make the 600B an ideal unit in the lower priced speaker field. Utilizes Dia-Cone principle. Similar in construction to the 603B. V. C. 8 ohms. Pwr. rating: 20 watts. Wt. 12 lbs. Dia. 12 $\frac{1}{4}$ ". Depth: 5 $\frac{1}{4}$ ".

List price: \$54.24.

### 400B DIA-CONE SPEAKER

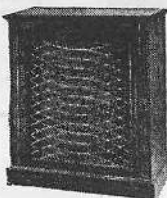
The 400B Dia-Cone was designed for use where the benefits of large-speaker performance cannot be utilized because of space and weight limitations. An extremely efficient, high quality unit, it is ideal for use in portable devices, airplanes, busses, etc. V. C. imp. 8 ohms. Pwr. rating: 12 watts. Wt. 4 lbs. Dia. 8 $\frac{3}{4}$ ". Depth: 3 $\frac{1}{2}$ ".

List price: \$25.75.

## CABINETS

Engineered for high quality sound reproduction. Cabinets are made of heavy plywood. All joints are screwed and glued. Interiors padded to eliminate spurious rattles and reflections. Code letters show speaker size:

A-15"; B-12"; C-8".



605

605-A  
Furniture  
Walnut or Mahogany  
H-38" W-30" D-16"

List Price: \$180.00



612

612-A, B  
Utility  
Blue Gray  
H-28 $\frac{1}{2}$ " W-25 $\frac{1}{2}$ "  
D-17 $\frac{1}{4}$ "

List Price: \$62.00



614

614-A, B, C  
Portable  
Blue Gray  
H-24 $\frac{3}{4}$ " W-18 $\frac{3}{4}$ "  
D-14 $\frac{1}{4}$ "

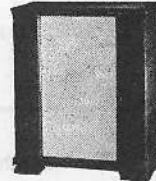
List Price: \$56.00



618

618-B, C  
Portable  
Slanting Front  
Blue Gray  
H-29" W-17"  
D-18 $\frac{1}{4}$ "

List Price: \$42.67



620

620-A, B, C  
Furniture  
Walnut, Mahogany,  
White Birch  
H-33 $\frac{1}{2}$ " W-26 $\frac{1}{2}$ "  
D-11 $\frac{1}{4}$ "

List Price: \$80.00

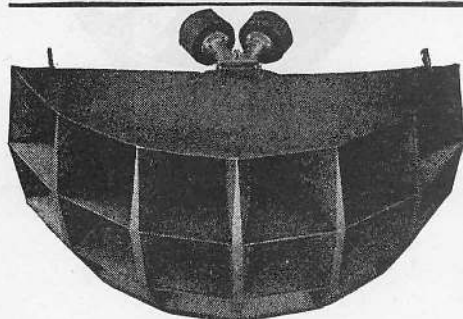
## MULTICELLULAR HORNS

Altec Lansing multicellular horns are constructed from true exponential horn cells grouped in configurations to meet various sound distribution needs. The large multicellular horn is the best way to cover great distances and areas with high levels of acoustic power above 200-300 cps, and to direct this energy for maximum acoustic efficiency. Chart shows horns available. Throats must be ordered separately according to type required.

## 290 SPEAKER

Designed to fit on throats of Altec Lansing multicellular horns. So used, 290 speaker will produce sound level of 98 db (ref. 10<sup>-16</sup> watts/cm<sup>2</sup>) at 5' with input of 0.1 watt @ 1 kc. Mounted in cast bakelite ring, entire diaphragm and v.c. assembly is field replaceable. When used for all-range reproduction, attenuate frequencies below 500 cps. 30 watt capacity above 800 cps. 24 ohm v.e. under normal horn loading conditions. 6 $\frac{3}{8}$ " dia. x 4 $\frac{1}{2}$ " deep. Wt. 21 lbs.

List price: \$200.00.



Horn Code #	Cell Configuration	Sound Distribution		Dimensions *L-W-H	Net Weight (Less Speakers)	LIST PRICE	Code No. Throat Required			Throat Code No.	LIST PRICE
		Horizontal	Vertical				1 Unit	2 Units	4 Units		
H-803	2 x 4	70°	35°	36 x 32 x 18	86	\$155.53	30162			30162	\$22.20
H-1003	2 x 5	90°	35°	35 x 40 x 18	131	216.67	30210			30166	22.20
H-1203B	2 x 6	105°	35°	36 x 43 x 18	152	216.67	30210			30210	22.20
H-1504	3 x 5	105°	60°	33 $\frac{1}{2}$ x 40 x 24	160	244.47	No.			30170	44.40
H-1803	3 x 6	105°	55°	35 x 43 x 25	184	255.53	30166	30172	(2)30170	30172	44.40

\* Overall length of horn including throat and 288 unit (s).

## Loudspeakers and Horns



# ALTEC

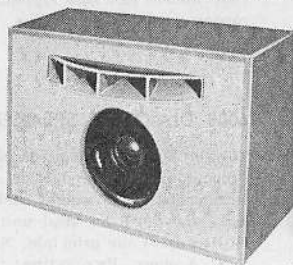
LANSING CORPORATION

1161 N. Vine Street  
Hollywood 38, Calif.

161 Sixth Avenue  
New York 13, N.Y.

Formerly manufactured by Western Electric Co., Inc.

**757A** Where wide distribution and extended frequency range are required, the 757A is perfectly adapted. Ideal for recording studios, program distribution systems, and other applications where highest quality sound reproduction is required, the 757A provides excellent frequency response and wide angle of distribution. High frequency speaker and horn, low frequency speaker and network are housed in utility cabinet which may be finished to taste or mounted in walls or furniture. 60-15,000 cps. Impedance, 4 ohms. 30 watts. H-20"; W-30 1/2"; D-18 3/4". Weight 82 lbs. List Price: \$280.70



### 728B

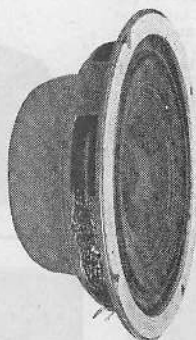
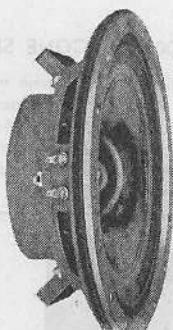
Engineered to provide quality sound reproduction in speech and music monitoring and in public address systems. 60-10,000 cps. Impedance, 4 ohms. 30 watts. 12 1/2" dia., 3 1/2" deep. Weight, 17 lbs.

List Price: \$31.20

### 754B

Designed with phenolic diaphragm for outdoor use, this speaker is ideal for public address sound distribution systems, wired program service. Impervious to moisture and salt spray. 60-10,000 cps. Impedance, 4 ohms. 50 watts. Dimensions, 12 1/2" x 3 3/4". Weight, 17 lbs.

List Price: \$106.00



### 755A

Exceptional frequency response, small size and moderate power handling capacity provide an ideal combination for low level distribution systems where multiple speakers are used. Its small size makes wall installations practical and easy. 70-13,000 cps. Impedance, 4 ohms. 8 watts. Dimensions, 8 3/8" dia. x 3 1/8" deep. Weight, 4 3/4 lbs.

List Price: \$22.50

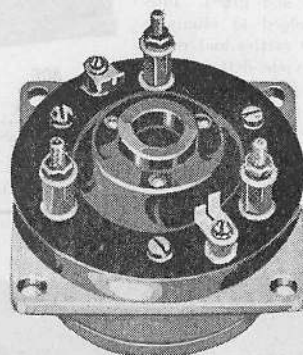
### KS-12047 HORN

Rugged, weatherproof bi-directional horn for high-level paging or talk-back systems. Ideal for noisy locations such as railroad yards, mines, mills. Will work as microphone. Uses separately ordered 720A Receiver. Clamps on 2 1/2" pipe. 30 watts. L-31 1/2"; W-13 3/8". Weight, 24 lbs. List Price: \$148.50



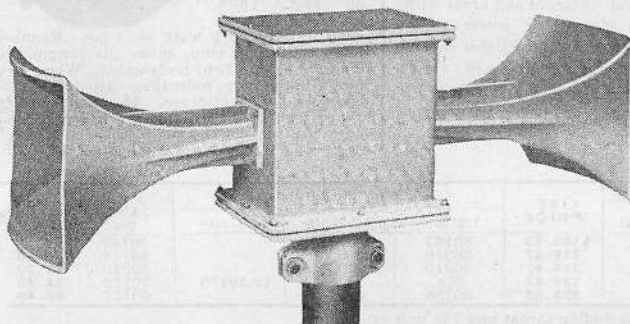
### 31A HORN

Shown with 713A Receiver and 27A Receiver Attachment. Handles 25 watts, speech or music. W-23"; H-9"; D-15". Weight, 9 1/2 lbs. Gray finish. List Price: \$54.00



### 720A RECEIVER

500-6500 cps. 25 watts. 16 ohms. 4 5/8" x 4 7/8". Weight, 8 lbs. List Price: \$65.40



32A Horn	List Price: \$25.85
KS-12024 Horn	List Price: \$31.20
KS-12025 Horn	List Price: \$31.20
KS-12027 Horn	List Price: \$61.95