

PUBLIC ADDRESS EQUIPMENT
BY LAFAYETTE

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No. 64

1936



LAFAYETTE RADIO MFG. COMPANY
100 SIXTH AVENUE • • • NEW YORK, N. Y.

Lafayette Hearing-Aid System



PICTURED at the left is the complete Lafayette hearing aid system. It is especially designed for installations in theatres, churches, lecture rooms and auditoriums, where the speaker is at a considerable distance from his listeners. Excellent tone and volume are furnished, and any number of headsets from one to 100 can be used.

The system consists of amplifier, high-fidelity crystal microphone mounted on a desk stand, four station boxes and 25 ft. of microphone cable. The amplifier is the Lafayette 5-watt unit model 244-A, fully described on page 3. The microphone is the Piezo-Astatic crystal model D-104 (YM13363), and provides high-quality wide-range reproduction. The mike is furnished with a YN13526 desk stand and provided with 25 ft. of cable—sufficient for all practical purposes. The station boxes are designed to fasten on rear of seats, and consist of a 50,000-ohm volume control and a jack for the headset. Four of these units are supplied with the system; additional stations can be added as desired. Two types of headsets can be used; both types are shown in the illustration. The first consists of the lorgnette model (with long handle), and is generally preferred because it

does not disarrange the hair. The second type is the head-band phone which is sometimes desired because it leaves the hands free. Bone conduction units can be used in place of headphones if desired. No phones are supplied with the system, since choice of suitable types lies solely with the purchaser.

The system operates entirely on 110 volts, 50-60 cycles a.c. Amplifier can be hidden in a closet or outside room. Sufficient power is available in the amplifier to drive a dynamic speaker.

Systems for 220-240-250 volts, 50-60 cycles a.c. supplied on special order.

Model 511-P—Lafayette Hearing Aid System. Consists of model 244-A amplifier equipped with special output transformer and screen, one Piezo-Astatic (13363) mike mounted on a desk stand and equipped with 25 ft. of cable, four station boxes with 50,000-ohm volume controls, and all tubes. Less headphone equipment. For 110 volts, 50-60 cycles a.c. Shpg. wt. 23 lbs. Code **\$84.95** SOMBA. List Price

Suitable lorgnette and headset type phones and phone plugs, as well as additional station boxes, will be found listed on page 40.

Lafayette "Kitchen-Kall" System



THE Lafayette "Kitchen-Kall" system, as its name implies, is specially designed for use in restaurants between kitchen and dining rooms. In such installations, all the noises incidental to shouted orders are eliminated, and efficiency is greatly increased. Other suggested applications for the system include installations: between office and stock room; between sales counter and change booth, etc. A push-button is provided at the receiving end to signal "O.K."

The system comprises the following components: one Lafayette 5-watt amplifier model 244-A (described on page 3); one special phone box with built-in Piezo-Astatic crystal mike. Box has "push-to-talk" switch and green "OK" and red "IN USE" signals. 25 ft. of mike cable and plug furnished; one special 8" dynamic speaker with 25 ft. of cable, and one dry cell for pilot lights. Speaker is housed in a metal case that is dust and dirt-proof. All tubes included; system as listed is ready for instant operation. Easy to install.

The system is regularly furnished for operation on 110 volts, 50-60 cycles a.c. Systems for operation on 220-240-250 volts, 50-60 cycles a.c., can be supplied

on special order. Prices on request.

Model 557-P—Lafayette "Kitchen-Kall" System. Consists of model 244-A amplifier complete with tubes and screen cover, phone box with built-in crystal mike, 8" dynamic speaker in metal box, 25 ft. of mike cable and plug and 25 ft. of speaker cable. For 110 volts, 50-60 cycles a.c. Shpg. wt. 29 lbs. Code **\$86.50** STAKE. List Price

The picture below shows one of the several Lafayette "Kitchen-Kall" systems used in the well-known Child's restaurants in New York City.



Lafayette Outdoor-Call System



THE Lafayette system pictured at the left is designed for outdoor installations where only moderate power output is necessary, but where quality must be excellent. It is particularly well suited for use in coal yards, between the loading platform and the office; in lumber yards, between stock racks and office; in fair-ground concessions for "speeling," and many others.

The equipment selected to make up the system includes one Lafayette 5-watt, high-gain amplifier model 244-A (fully described on page 3) equipped with a special matching transformer and a screen, one Universal velocity microphone (13638) mounted on a 13442 desk stand and provided with 25 ft. of cable, and one Wright DeCoster (19188) combination dynamic speaker and weather-proof trumpet, equipped with 25 ft. of rubber-covered cable and a plug. Tone quality is the finest possible. The speaker and trumpet combination is a Wright DeCoster model 2050 unit. It consists of a specially designed 6" dynamic cone unit mounted in a totally enclosed trumpet that is constructed of weather-proof material. The trumpet is 27 1/4" long, and has a bell opening 2 1/4" x 14"; overall finish in attractive silver.

The microphone supplied is the Universal Velocity Microphone (YN13638) (see page 39), and it affords high-fidelity reproduction. It is furnished with 25 ft. of heavy-duty rubber-covered cable and a plug for connecting to the input jack on the panel of the amplifier. Mike is mounted on a gunmetal-plated desk stand (13442, listed on page 41). All controls are operated from front panel of the amplifier; two low-gain channels are available which can be used for phono pick-up reproduction to attract customers to a show, display, etc., or for additional high-level microphones (for example: diaphragm crystal type).

Model 558-P—Lafayette Outdoor Call System. Consists of Lafayette 5-watt amplifier model 244-A, with screen and output transformer, Universal velocity mike YN13638, desk stand YM13442, 25 ft. of mike cable and plug, Wright DeCoster model 2050 combination speaker and trumpet (19188) with 25 ft. of cable (see page 43), and all tubes. For operation on 110 volts, 50-60 cycles a.c. Shpg. wt. 40 lbs. Code **\$92.50** LIST PRICE

Systems for operation on 220-240-250 volts, 50-60 cycles a.c., available on special order. Prices on request.

5 WATT Lafayette HIGH-GAIN AMPLIFIER



THIS new Lafayette amplifier is the highest gain, low-powered unit ever developed. It makes possible for the first time direct connection to a low-powered amplifier of a crystal, velocity or sound-cell microphone without the need for additional pre-amplifying apparatus.

USES PARALLEL MIXING AND FADING

Three input channels are provided. The high-gain input provides a gain of 131.2 db (at 5-megohm input impedance) and is controlled by a separate volume control. The two low-gain channels are equipped with a dual-input fading control which permits simultaneous control of these two inputs. Fading and gain control is quickly, easily and smoothly accomplished.

FURNISHES FIELD SUPPLY TO 1000-OHM SPEAKER

The amplifier will also supply field current for a speaker field having a resistance of 1,000 ohms, at approximately 8 watts. The circuit is ultra-modern and employs four stages with the following tube complement: 2-6C6's, 1-8B5 and 1-83V. The output is 5 watts into a 7,000-ohm load. This amplifier can also be supplied to order for use with photo-cells, at a slightly higher price. Write for prices and details.

Output impedance is 7,800 ohms; input impedance is 5 megs for the high-gain channel and 500,000 ohms for the low-gain inputs.

High-gain input and output connections are of the plug-in type. You don't have to be an engineer to use this amplifier. The a.c. line is fuse-protected and prevents damage due to overloads. A 6-foot approved rubber-covered cord with plug is furnished for the line input.

The chassis is of sturdy steel construction, finished in handsome rubber-black, and measures 12" by 6 3/4" by 7 1/4" high. It is so designed that a speaker-amplifier unit which can then be mounted on a standard rack-panel or in a compact cabinet, if desired. Power consumption from a.c. line is 60 watts.

Model 244-A—Lafayette 5-Watt Amplifier less tubes and screen. For 110-volt, 50/60-cycle a.c. operation. Code ALBAS. Shpg. wt. **\$25.00**
14 lbs. List Price
Kit of tubes: 2-6C6's, 1-8B5, 1-83V. List Price **\$5.73**

Model 244-DL—Protective steel screen as illustrated at right. Attractively finished to match amplifier. Sturdy, spot-welded construction. Shpg. wt. 5 lbs. **\$1.90**
List Price

This amplifier is available for 220-, 240- or 250-volt 50/60-cycle a.c. operation on special order at a slight additional cost. Write for prices and details; be sure to specify your local current supply.



5 WATT Lafayette PORTABLE SYSTEM

EMPLOYING the amplifier described above, Lafayette engineers have assembled a portable system that has proved itself to be ideal for lecturers, demonstrators, small orchestras and other users of low-powered P. A. systems where portability is desired.

CAN BE USED WITH CRYSTAL OR VELOCITY MIKE

It is the first moderately-powered portable which can be used with low-level microphones such as the velocity and sound-cell types. This feature is extremely important to those users who require a high standard of quality reproduction.

Use can be made of the two additional low-gain input channels for simultaneous operation of the microphone and phono pick-up or electric guitar—an invaluable feature rarely found in amplifiers of this low power rating.

EMPLOYS FULL 10" QUALITY SPEAKER

A large high-quality 10" electro-dynamic loud speaker is built into the cover which provides an unusually large baffle area. The speaker can be placed on the floor or hung by the handle of the cover; 25 feet of rubber-covered speaker cable is furnished. A 6-prong plug at the end of the cable fits into a socket on the chassis of the amplifier, thus facilitating setting up and dismantling.

Model 540-P—Lafayette 5-Watt Portable System complete with speaker and cable, but less tubes and microphone. For 110-volt, 50/60-cycle a.c. operation. Code SERBA. Shpg. wt. 40 **\$53.90**
lbs. List Price
Kit of tubes: 2-6C6's, 1-8B5, 1-83V. List Price **\$5.73**
Available for 220-, 240- or 250-volt, 50/60-cycle a.c. operation on order at a slight additional cost. Write for prices and details.

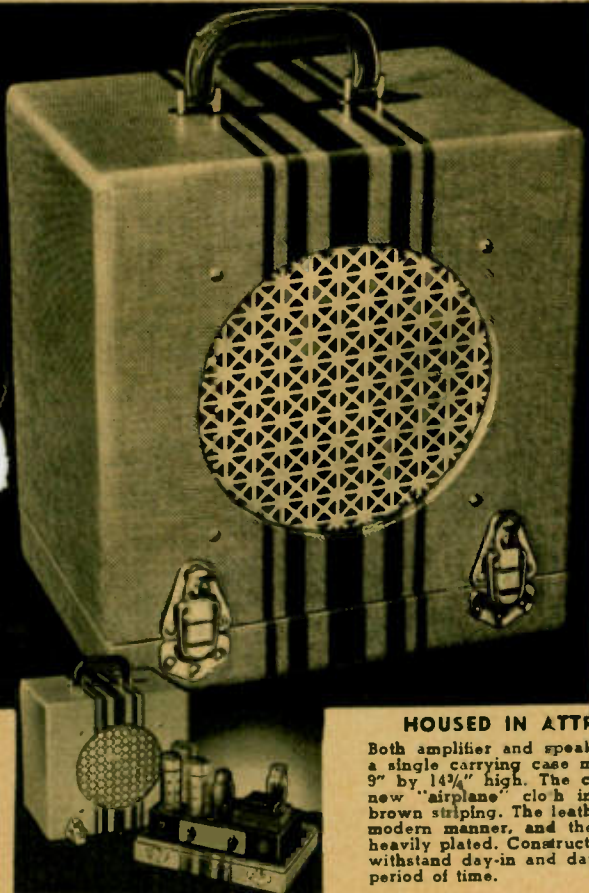
HOUSED IN ATTRACTIVE CASE

Both amplifier and speaker are housed within a single carrying case measuring only 13" by 9" by 14 1/4" high. The case is finished in the new "airplane" cloth in light tan with dark brown striping. The leather grip is done in the modern manner, and the four snap locks are heavily plated. Construction is rugged so as to withstand day-in and day-out use over a long period of time.

MICROPHONE COMBINATION

Microphone Combination 604-P—Especially put up to match the above system. Consists of a model D-104 Astatic Crystal Microphone (described on page 39) and a No. 13528 floor stand, with 25 feet of rubber-covered cable equipped with a plug. Code SWIRA. **\$38.20**
Shpg. wt. 14 lbs. List Price

Further listings are on pages 39, 40, 41.

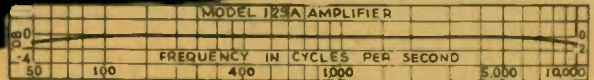


15 WATTS OUTPUT

Lafayette STANDARD AMPLIFIER AND SYSTEM



- Crystal and Velocity Microphone Operation.
- 3 Inputs with "Dual Input" Fader-Mixer.



The above curve is a graphic illustration of the high-fidelity characteristics of the Lafayette 15-Watt Standard Amplifier. This curve was plotted under actual load conditions.

THERE is no amplifier available today to compare with the Lafayette 15-Watt Standard Amplifier in dollar-for-dollar results. Here is an amplifier and a complete system that meet the price requirements of the most cost-wary purchaser, and yet meet the power and quality requirements of the most critical.

All components conform with standard Lafayette quality, both in design and quality. The phenomenally low cost of this amplifier is made possible by eliminating only the trimmings which are not absolutely essential. Finish and workmanship are of the finest.

15 USABLE WATTS OUTPUT—20-WATTS PEAK

Its maximum output of 15-watts into a 500-ohm line provides ample coverage for average requirements. Harmonic content at this output is 9%, well within acoustical tolerance, and, with a hum level of minus 45 db below 15-watts, reproduction is brilliant and life-like. Lowest bass and highest treble are faithfully reproduced.

AMPLE GAIN FOR CRYSTAL AND VELOCITY MIKES

It incorporates features found only in more expensive amplifiers: an exceptional gain of 140.2 db (at 5 megohms) permits the use of crystal, velocity or sound-cell microphone with no additional apparatus. In addition to the high-gain input channel, two low-gain inputs are furnished for high-level devices such as carbon mikes, phono pick-ups and electric guitars—a total of three inputs.

USES DUAL-INPUT FADER AND PARALLEL MIXING

A separate volume control is provided for the high-gain channel and a dual-input fader for the two low-gain input channels, thus offering parallel mixing of the high-gain and either one of the low-gain inputs or fading from one low-gain channel to the other while the volume of the high-gain input is being varied. At no point is there any apparent frequency discrimination—the output of mike or phono pickup is unaltered in mixing.

FURNISHES FIELD SUPPLY OF 16-WATTS

The field supply of 16-watts can be used for one 10,000-ohm field or divided between two 5000-ohm fields consuming 8-watts each. A plug-in output receptacle simplifies speaker connections.

TECHNICAL CHARACTERISTICS

Peak Output	20 watts
Maximum output into 500-ohm line	15 watts
Harmonic content (at 15-watts)	9%
Hum level (below 15-watts)	-45 db

GAIN OF HIGH-GAIN CHANNEL

At 5-megohm input impedance	140.2 db
At 150,000-ohm* input impedance	125 db

GAIN OF LOW-GAIN CHANNELS

At 500,000-ohm input impedance	95.2 db
At 150,000-ohm* input impedance	90 db

*Highest value of present-day input devices.

Its frequency response ranges from 50 to 10,000 cycles within 2 db, thus assuring high-fidelity results when used with suitable associate apparatus. This excellent response, coupled with its output rating of 15-watts, makes the 129-A amplifier an ideal unit for the majority of installations where these factors are essential.

PROVIDES VARIABLE OUTPUT IMPEDANCES

Maximum efficiency from the loud speakers is obtained with the aid of an oversized output transformer which offers output impedances to match any speaker installation. The following outputs are available through a novel arrangement of tap-jacks: .35/6/1.35/2.4/6/8/15/50/250/500 ohms.

MOUNTED ON SPOT-WELDED STEEL CHASSIS

The complete unit is assembled on a heavy-gauge steel chassis which is finished in attractive rubber-black. A bottom plate affords complete electrical and mechanical shielding. Overall dimensions are 6 1/2" by 17 1/2" by 8" high. The overall design is such as to permit rack-panel mounting if desired. Additional features include: a protective fuse in the a.c. line, plug-in output and input connections, handsomely etched dial plates and a 6-foot rubber-covered improved cord and plug.

Model 129-A—Lafayette 15-Watt Standard Amplifier only, with output transformer, but less tubes. For 110-volt, 50-60-cycle a.c. operation. Code, ALBAN. Shpg. wt. 26 lbs.
List Price

\$39.90

Kit of tubes: 1-6C6, 1-6A6, 1-76, 2-6B5's, 1-83V.
List Price

\$8.93

A COMPLETE SYSTEM—USED WITH ANY TYPE MICROPHONE

System No. 539-P—Consists of the amplifier described above with tubes, two Lafayette P.A. special d.c. 5000-ohm speakers, two No. 19838 flare baffles (see page 44), but less microphones. Code, SEBLE. Shpg. wt. 65 lbs.

\$86.60

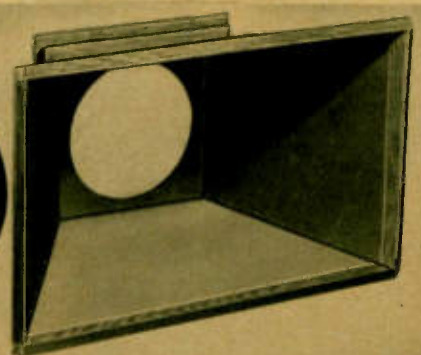
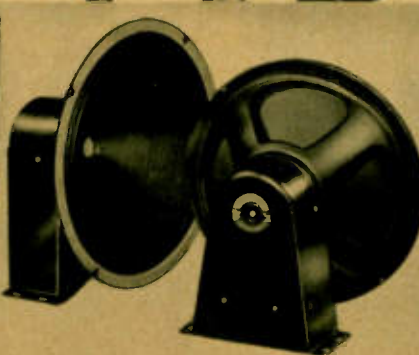
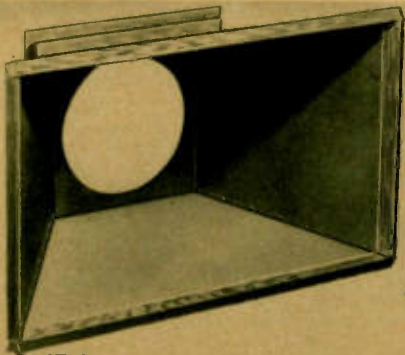
Either amplifier or system is available for 220-, 240- or 250-volt, 50-60-cycle a.c. operation at slight additional cost.

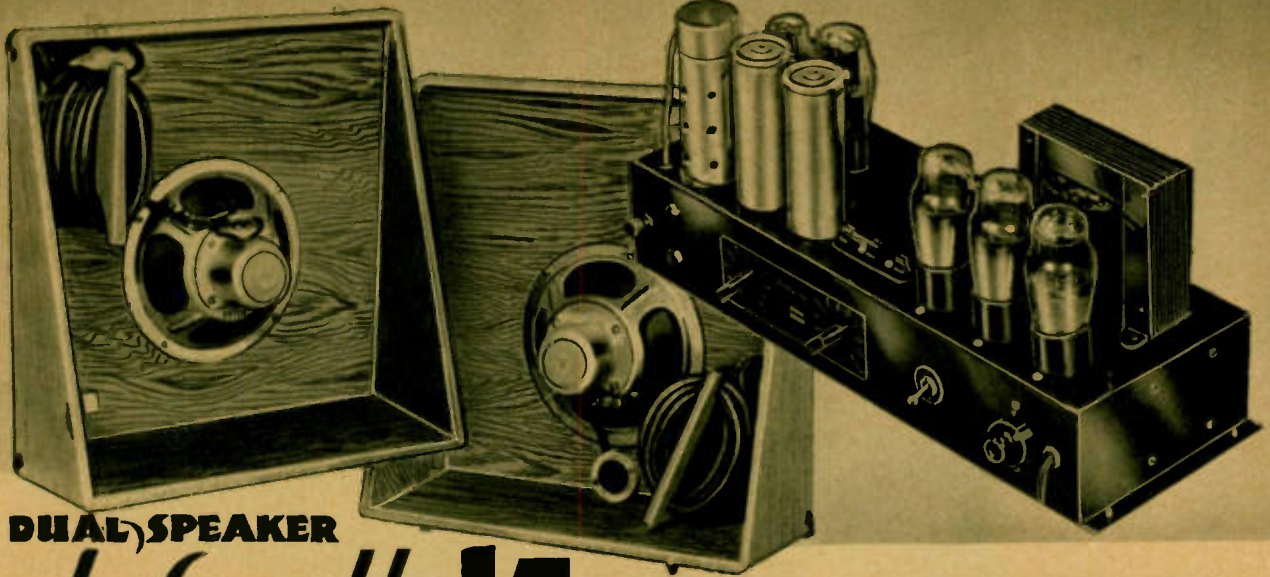
MICROPHONE COMBINATION

Microphone Combination No. 600-P—Consists of Universal Velocity microphone (described on page 39) a No. 13528 floor stand, 25 ft. of rubber-covered cable, and a plug. Code, SWARE.

\$38.20

Shpg. wt. 22 lbs. List Price
The above microphone combination is merely a suggestion and does not indicate that no other can be used. A complete listing of many other suitable microphones and their stands and accessories is found on pages 39, 40 and 41 in this catalog.





DUAL SPEAKER

Lafayette 15 WATT PORTABLE

THIS Lafayette 15-watt portable system is well suited for use by orchestras, lecturers, "speakers", etc. It is powerful, compact, neat in appearance, and can be used with high-quality velocity or sound-cell type microphones. The amplifier, two speakers and cables are contained in a single portable carrying case correctly proportioned for easy carrying by one person.

POWERFUL HIGH-GAIN AMPLIFIER

The amplifier used with the system (fully described on page 4) makes use of six high gain tubes including 1-6C6, 1-6A6, 1-76, 2-6B5's and 1-83-V rectifier. A power output of 15 watts is provided; more than sufficient for most applications. Frequency response covers a wide range without appreciable discrimination. Harmonic content and hum level characteristics are exceptionally good.

THREE INPUT CHANNELS

A total of three input channels is provided. One is a high-gain channel designed to be used with a high-fidelity velocity or sound-cell type microphone; the other two channels are low-gain channels designed for use with phonograph pick-ups, electric guitars and other similar relatively high-output devices. A built-in pre-amplifier provides a stage of amplification on the high-gain channel for microphone input.

MIXING FACILITIES INCLUDED

A built-in mixer is included in the circuit in such a manner that reproduction from a high-gain and either of the low-gain channels can be mixed together or faded from one to the other at will. Thus, microphone reproduction and phono recordings can be mixed and faded to produce many novel and entertaining effects. All controls are smooth and noiseless in operation.

TWO DYNAMIC SPEAKERS

Two special d.c. dynamic speakers are furnished with the system. These speakers handle the full output of the amplifier, and are capable of reproducing the entire audible range of frequencies with good fidelity. The speakers are connected in series, and each is equipped with 25 feet of heavy duty rubber covered cable. One speaker can be placed up to 25 ft. from the amplifier, the other up to 50 ft. from the amplifier. Additional cable can be added if desired. The two halves of the carrying case act as efficient baffles for the speakers. Full field excitation is furnished from the amplifier, so that maximum sensitivity and power is maintained under all operating conditions.

PROTECTIVE LINE FUSE

A protective line fuse is wired in the input circuit to prevent burnouts and breakdowns due to excessive line voltages or improper connections. The fuse is easily accessible, and can be replaced whenever necessary in a few moments without the need for tools.

EASY TO OPERATE

The entire system can be set up or taken down in a few minutes. Microphone connects to a jack on the panel; speaker plugs into a socket on the panel. Amplifier slides into case easily. Cable hooks built-into case.

MODERNISTIC CARRYING CASE

The case is designed in the modern luggage manner, and presents an extremely neat and handsome appearance. Case is covered with durable "airplane luggage" weatherproof leatherette with red and black lines in a pleasing design. Speaker openings are covered with metal grilles finished in aluminum lacquer; grilles protect speaker cones.

SYSTEM EASILY PORTABLE

The entire system—amplifier, speakers and cables—is housed in a single case measuring only 17" high, 17" long and 7" wide, and weighing only 36 pounds. It can easily be carried from place to place by means of the sturdy carrying handle on top of the case.

AVAILABLE FOR 220-240-250 VOLTS

The model 579-P system is regularly supplied for operation on 110 volts, 50-60 cycles a.c. System for use on 220-240-250 volts, 50-60 cycles a.c. can be supplied on special order. Full details and price information furnished upon written request.

Model 579-P—System consists of Lafayette 15-watt amplifier, two high-quality dynamic speakers with extension cables. Mounted in attractive "airplane" type luggage case 17" long, 17" high, 7" wide. Less tubes and microphone equipment. For operation on 110 volts, 50-60 cycles a.c. Shpg. wt. 48 lbs. Code SAFRA.

\$79.00

List Price
Kit of tubes for above. 1-6C6, 1-6A6, 1-76, 2-6B5's, 1-83-V. List Price **\$8.93**

Mike Combination No. 603-P—Consists of Lafayette Velocity mike YN13572, floor stand YM13528 and 25 ft. of cable. Shpg. wt. 22 lbs. Code SWIVO. **\$54.88**

List Price
Mike Combination No. 600-P—Consists of Universal Velocity mike YN13638, floor stand YM13528 and 25 ft. of cable. Shpg. wt. 22 lbs. Code SWARE. **\$38.20**

List Price
Mike Combination No. 602-P—Consists of Brush Sound Cell mike YN13623, floor stand YM13528 and 25 ft. of cable. Shpg. wt. 14 lbs. Code SWOMA. **\$60.70**

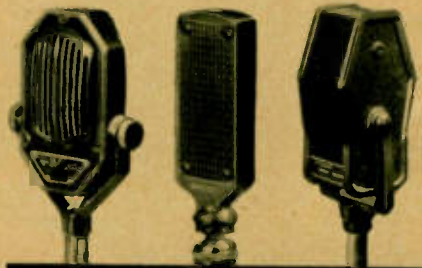
List Price
Other suitable microphones for use with the above system listed on pages 39 and 40.

Extra extension cables for dynamic speakers. Heavy rubber covered cables, with rubber covered plug and socket. Two sizes.

YQ10300 25 foot cable. **\$7.96**

List Price
YQ10305 50 foot cable. **\$11.96**

List Price

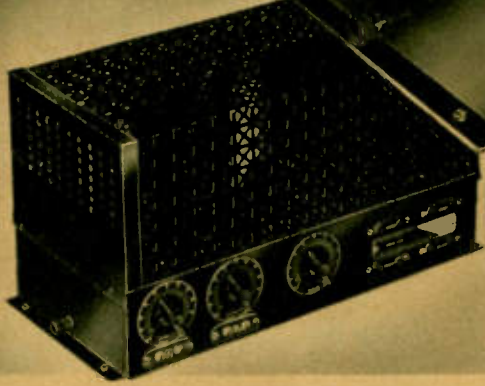
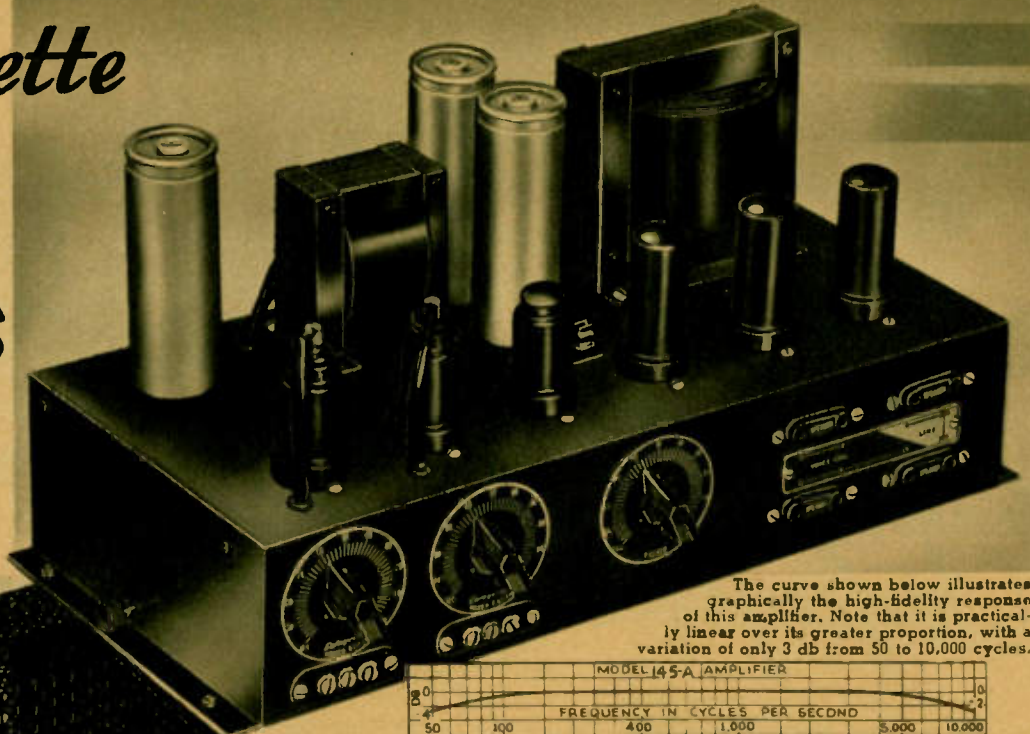


Lafayette

15

WATTS

Output



The curve shown below illustrates graphically the high-fidelity response of this amplifier. Note that it is practically linear over its greater proportion, with a variation of only 3 db from 50 to 10,000 cycles.



PROTECTIVE STEEL

SCREEN

Model 145-DF—Adds to the attractiveness of the amplifier and affords maximum protection. Rigid steel construction, finished to match amplifier. Measures 15 1/4 x 7 3/4 x 5 3/4" high. Designed to offer maximum ventilation. Shpg. wt. 6 lbs. **\$2.95**

TECHNICAL CHARACTERISTICS

Peak Output 24 watts
 Maximum output into 500-ohm line:
 At 5% harmonic content 15 watts
 Hum level (below 15 watts) -43 db
 Amplification (overall gain):
 High-Gain Channels
 At 5-megohm input impedance 141.2 db
 At 150,000 ohm* input impedance 126 db
 Low-Gain Channels
 At 500,000-ohm input impedance 81.2 db
 At 150,000-ohm* input impedance 76 db
 *Highest value of input devices in use.

AGAIN Lafayette scores! Always in the fore in developing new and improved products, Lafayette engineers have designed an amplifier which uses all-metal tubes EXCLUSIVELY, and which for power, quality, flexibility and cost, stands head and shoulders above anything in its class.

EMPLOYS SIX NEW ALL-METAL TUBES

The tubes used are not to be confused with the so-called "glass-metal" type. Every tube in this amplifier is of ALL-METAL construction. Six of the latest multi-purpose type are employed: a 6J7, a 6L7, a 6CS, 2-6F6's and a 5Z4 rectifier.

24 WATTS PEAK—OVERALL GAIN 141.2 DB

No external amplification is required with this unit because of its exceptional gain of 141.2 db (at 5-megohm input impedance). With a power output of 15-watts, the harmonic content is only 5%. At 18-watts it is 9%—well within tolerance for average work. The hum level is extraordinarily low—minus 43 db below 15-watts.

ELECTRONIC MIXING WITH PRE-AMPLIFICATION

Users of velocity, crystal or sound-cell microphones who realize their need for nothing short of the finest technical performance, will find this amplifier ideally designed for use with these excellent input devices. A studio-type Electronic mixer, the most advanced circuit in the field, insures flawless control of any combination of inputs. Volume can be controlled while the amplifier is in use, with an exceedingly fine degree of variation and absolute lack of noise. All controls governed from amplifier panel.

HAS FOUR INPUT CHANNELS—1 HIGH-GAIN, AND 3 LOW-GAIN

Sufficient inputs are provided to care for the average stage, orchestra or auditorium set-up. A high-gain channel using a stage of pre-amplification is provided for low-level, high-fidelity microphones, and three low-gain channels for high-level units such as carbon microphones, phono pick-ups and electric guitars. The input impedance of the high-gain stage is 5-megohms, thus permitting direct connection of crystal, velocity or sound cell microphone. The low-gain channels have an input impedance of 500,000 ohms. Connections are made to terminal strips on panel.

FADERS ON ALL INPUT CHANNELS

Two "dual-input" fading controls are features found almost indispensable by stage and orchestra for sound-effects, off-stage control and special orchestrations. Lecturers find it ideal for more effective control when changing from record reproduction to voice, or vice versa. In all cases, faders present a method of controlling change-overs, with no equal in any other system.

However, it remained for Lafayette engineers to develop multi-channel fading to the high degree of efficiency found in Lafayette

amplifiers. The fading system in this amplifier permits simultaneous fading of a high and a low-gain input and two low-gain inputs. A valuable feature for stage and orchestra.

HIGH-FIDELITY RESPONSE—50 TO 10,000 CYCLES

Frequency response is exceptional—50 to 10,000 cycles within 3.2 db. The curve shown above illustrates this graphically, and was plotted under ACTUAL LOAD conditions.

WIDE-RANGE TONE CONTROL is an additional feature to permit high-frequency attenuation so as to make the lows predominate, or to overcome feed-back difficulties.

PROVIDES 16 WATTS FIELD EXCITATION

A considerable saving in field exciting apparatus is had because of the availability of this energy at the amplifier; 16 watts is provided for 10,000 ohms. This permits the use of two 5000-ohm fields at 8 watts each. Two 6-prong sockets are mounted on rear of chassis to facilitate connection of the speakers for quick plug-in.

OUTPUT IMPEDANCES FOR ALL INSTALLATIONS

By means of an exclusive Lafayette development, four double-tip jacks mounted on the chassis front provide the following output impedances: .35/6/1.35/2/4/8/8/15/50/250/500 ohms. Full efficiency from any arrangement of the loud speakers is obtainable simply and quickly.

EASILY INSTALLED AND OPERATED

All connections and controls are so designed as to allow anyone to operate this amplifier. Simplicity is its keynote. Engineering knowledge is not essential. All one has to do is to follow the instructions, exercise some every-day common-sense and the amplifier will do the rest.

MOUNTED ON HEAVY-GAUGE STEEL CHASSIS

The entire assembly is mounted on a sturdy steel chassis finished in attractive rubber-black. Dials and plates are aluminum etched. Complete shielding and protection is assured by the use of a chassis bottom plate. Overall dimensions: 16 1/8" long, 7 7/8" high, 7 3/4" high. These measurements permit rack-panel mounting.

Model 145-A—Lafayette 15-Watt All-Metal Tube Amplifier, less tubes and screen, but with output transformer. For 110 volts, 50/60-cycle a.c. operation. Code AMPON. **\$49.90**
 Shpg. wt. 35 lbs. List Price

Kit of tubes: 2-6F6's, 1-6L7, 1-6J7, 1-6CS **\$9.20**
 Shpg. wt. 3 lbs. List Price

Available for 220, 240 or 250 volts, 50/60-cycle a.c. operation on order at slight additional cost.

DE LUXE ALL METAL TUBE AMPLIFIER

A COMPLETE SYSTEM INCORPORATING THE 15-WATT ALL-METAL TUBE AMPLIFIER

HERE is a system that is scientifically grouped to realize to the fullest extent the power and quality of the 15-watt all-metal tube amplifier described on the preceding page. It is admirably suited for use in auditoriums, churches, dance-halls, small theatres, taverns, and for temporary outdoor use (for permanent installations use weatherproof baffles as listed on page 44) at rallies and athletic fields of average size.

PERMITS CHOICE OF MICROPHONE

The system is complete but for the microphone and its accessories. This omission is made because of the average user's desire to choose his own input device. To assist him in making this choice, four excellent high-fidelity microphones are illustrated below and listed in the price box at the bottom of this page.

TWO POWERFUL 12" P.A. SPECIAL DYNAMICS

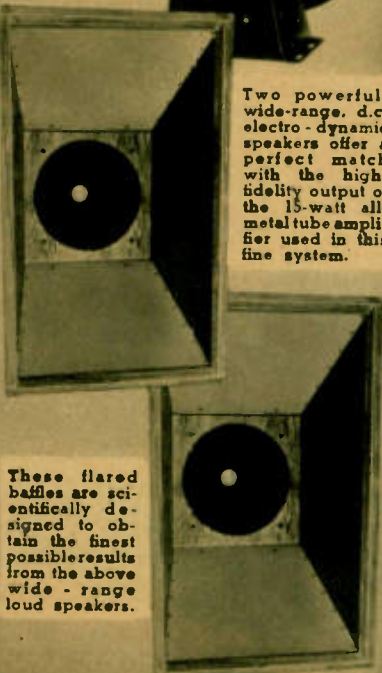
Two exceptionally fine electro-dynamic speakers offer a perfect match with the amplifier. They are capable of unusually wide frequency response and are designed to carry heavy loads continuously with a faithfulness of reproduction that will satisfy the most critical. Due to the fact that the amplifier supplies the field energy for the speakers, the additional cost and installation of field-exciting apparatus are dispensed with. Each speaker field has a resistance of 5,000 ohms; this value is chosen so as to obtain a proper match with the field supply.

Below are illustrated the special P.A. speakers described above, with their "demountable" flare baffles.



Two powerful, wide-range, d.c. electro-dynamic speakers offer a perfect match with the high-fidelity output of the 15-watt all-metal tube amplifier used in this fine system.

These flared baffles are scientifically designed to obtain the finest possible results from the above wide-range loud speakers.



A Lafayette High-Fidelity System

The microphones illustrated above are, from right to left, the Piezo-Astatic crystal, the Brush B2S crystal sound cell, the Lafayette P.A. velocity and the Universal velocity. All are representative of the most modern developments as regards their electrical and physical characteristics.

In conjunction with their high-fidelity response, the 15-watt all-metal tube amplifier and the Lafayette Special P.A. loud speakers go to make up a system capable of an incomparable quality of reproduction, with power and sensitivity to satisfy the most critical.

HANDLE MORE THAN 2 SPEAKERS

Although only two loud speakers are supplied with this system, more can be used if the installation is better served with an increased number of reproducers. It is possible to use four speakers, each handling four watts, eight speakers, each carrying two watts, and so forth.

AVAILABLE FOR HIGHER A.C. VOLTAGES

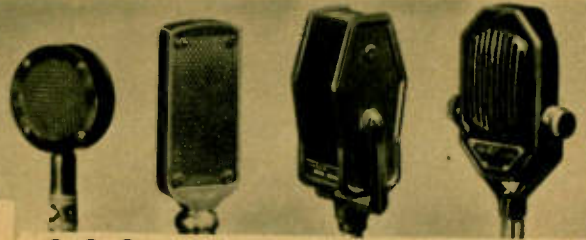
The complete system is also available for 220-, 240- or 250-volt, 50/60-cycle a.c. operation on special order at a slight additional cost. It is always a good idea to investigate the available current source as to voltage and frequency before ordering any apparatus which operates from utility outlets.

PHONOGRAPH RECORD REPRODUCTION

Suitable record reproduction equipment for use with this system is listed on pages 46 and 47 of this catalog. Three low-gain input channels are provided for this type of input device.

The flare baffles furnished with this system are of the "knock-down" type—a feature which makes for initial economy. However, they can be assembled in a few moments with nothing more than a socket wrench or a small pair of pliers. Each baffle is fastened together with offset spade bolts and when assembled forms a highly efficient, sturdy unit that can withstand plenty of hard usage. The finish is attractive aluminum paint and assembled dimensions are 14" deep, bell opening 30 by 18".

If you are on the market for an amplifier of this power rating, bear in mind that the associate apparatus shown on this page are merely suggestions on our part. Sufficiently extensive listings of loud speakers, baffles and microphones are offered in this catalog to permit a wide choice to suit any condition and fit any cost requirement. However, it is important to note that to get the most out of a high-fidelity amplifier, it is essential that its associate apparatus (microphones and speakers) be capable of matching it in quality.



System No. 507-P—Consists of the Lafayette 15-watt all-metal tube amplifier, as described on preceding page, complete with tubes and screen, two No. 19838 demountable flare baffles (described on page 44) and two Lafayette Special 12" P. A. d.c. speakers, No. 19234 (described on page 43). For 110-volt, 50/60-cycle a.c. operation. Shipping weight 75 pounds. Code SAKIS.
List Price **\$99.65**

Microphone Combination No. 600-P—Consists of one Universal velocity microphone (described on page 39), one No. 13528 floor stand (described on page 40) and 25 feet of rubber-covered cable with plug. Shpg. wt. 22 lbs. Code SWARE. List Price **\$38.20**

Microphone Combination No. 602-P—Consists of one Brush model B2S crystal sound cell (described on page 39), one No. 13528 floor stand and 25 feet of rubber-covered cable with plug. Shpg. wt. 14 pounds. Code SWOMA. List Price **\$60.70**

Microphone Combination No. 603-P—Consists of one Lafayette P.A. velocity microphone (described on page 39), one No. 13528 floor stand and 25 feet of rubber-covered cable with plug. Shpg. wt. 22 pounds. Code SWIVO. List Price **\$54.88**

Microphone Combination No. 604-P—Consists of one Piezo-Astatic model D-104 crystal microphone (described on page 41), one No. 13528 floor stand and 25 feet of rubber-covered cable with plug. Shpg. wt. 14 lbs. Code SWIEA. List Price **\$38.20**

Complete listings of all types of microphones, stands and accessories are found on pages 39, 40 and 41 of this catalog.



One of the better-known "night-spots" in New York City—the famous Green Room in the Hotel Edison. A Lafayette High-Fidelity System is part of its regular equipment.

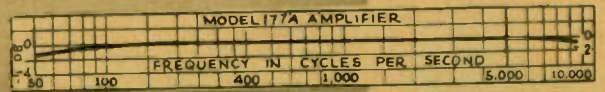
18 WATT

4 Inputs

2 HIGH GAIN CHANNELS

2 LOW GAIN CHANNELS

with
Electronic Mixing



THIS new Lafayette amplifier is especially designed for installations where wide-range, high-quality performance, plus fairly high power output, is required. Many distinctive circuit features incorporated in its construction make it an outstanding value. It is admirably suited for use in small theatres, dance halls, night clubs and restaurants, since it furnishes ample power to override the incidental room noises encountered in such installations. When used in conjunction with high-quality speakers and microphones, a truly high-fidelity public address system can be assembled. It is Lafayette custom-built throughout.

POWERFUL FIVE-STAGE HIGH-GAIN CIRCUIT

The amplifier makes use of seven modern type high-gain tubes as follows: 2-75's as pre-amplifiers; 1-6A6 as mixer amplifier; 1-6A6 as phase inverter; 2-6B5's in a push-pull output stage; 1-83 rectifier. Power output into a 500-ohm line, with only 9% harmonic content, is 18 watts; hum level is -45 db below this output. The frequency response, as shown by the curve above, is within 2 db from 40 to 10,000 c.p.s.

4 INPUT CHANNELS — 2 HIGH-GAIN, 2 LOW-GAIN

A total of four input channels is provided, two being high-gain and two low-gain. The high-gain channels for use with microphone input; the low-gain channels for use with electric guitars, phonograph pick-ups, etc. A built-in, two-position noiseless electronic mixer permits the mixing of two input devices.

TWO DUAL-INPUT FADER CONTROLS

Important among the many circuit features is the inclusion of two dual-input fader controls. Each one of these faders controls one high- and one low-gain channel, so that reproduction from two high-gain channels, from a high- and a low-gain channel, or from two low-gain channels, can be mixed together or faded from one to the other smoothly and noiselessly.

VELOCITY OR SOUND-CELL MICROPHONE INPUT

Sufficient gain is provided on the high-gain channels for the direct use of velocity or sound-cell type microphones (see gain ratings in technical specifications). Two mikes can be used simultaneously and reproduction from them can be mixed or faded from one to the other, to obtain novel or unusual results.

ADDITIONAL CIRCUIT FEATURES

Features in addition to those described above include: a full range tone control for limiting high-frequency response and to help eliminate feed-back; plug and socket connections on rear of amplifier for two a.c. dynamic speakers; fused power line.

AVAILABLE FOR 220-240-250 V., 50-60 CYCLES A.C.

The model 177-A amplifier is regularly designed for operation on 110 volts, 50-60 cycles a.c. Amplifiers for operation on 220-240-250 volts, 50-60 cycles a.c., can be supplied on special order, at a slight additional cost. Details on request.

Model 177-A—Lafayette 18-Watt DeLuxe Amplifier, less tubes and metal screen cover. Dimensions: 8 1/2 x 15 1/2 x 9 1/2" high. For operation on 110 volts, 50-60 cycles a.c. Shpg. wt. 37 lbs. Code AMCRI.

List Price **\$56.70**

Kit of tubes for above: 2-75's, 2-6A6's, 2-6B5's, 1-83.

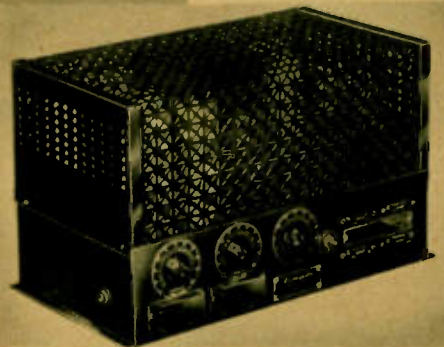
List Price **\$9.87**

PAGE 8

METAL SCREEN COVER

Provides perfect mechanical protection to amplifier components (tubes, transformers, etc.) Constructed of heavy gauge steel with rubber black lacquer finish. Perfect fit; easy to install. Shp. wt. 5 lbs.

Model 177-DF
List Price **\$3.20**

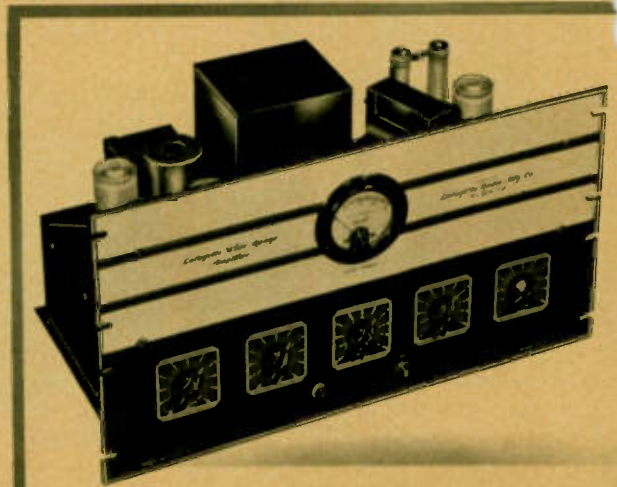


TECHNICAL SPECIFICATIONS

Peak Output 23 watts
Max. Output into 500 ohms:
at 9% 18 watts
at 6% 15 watts
Hum Level: -47 db below 18
watts output
Power Consumption: 110 watts
Output Impedance: .35/.6/1.35/
2/4/6/8/15/50/250/500 ohms

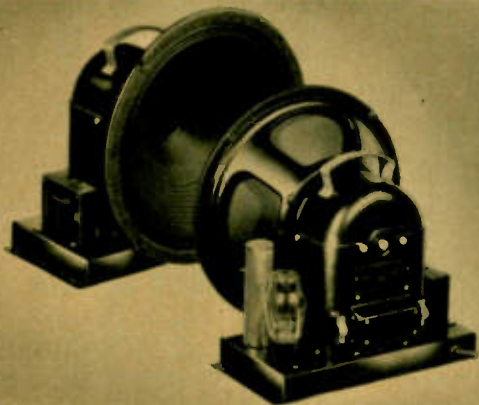
Amplification:

High-Gain Channels
at 5 megohms 134.2 db
at 150,000 ohms* 119 db
Low-Gain Channels
at 500,000 ohms 91.2 db
at 150,000 ohms* 86 db
*Highest impedance of average input device.



DUAL HIGH-GAIN INPUT DE LUXE AMPLIFIER

Lafayette



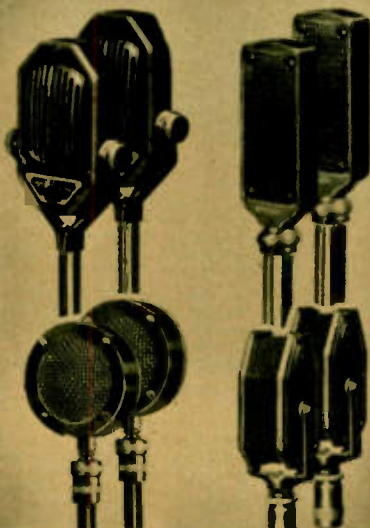
- Exceptionally Wide Range
- Two Velocity or Sound-Cell Mikes Can Be Used Simultaneously
- Built-in Two-Position Mixer
- Two "Dual-Input" Fader Controls—Smooth, Noiseless
- Four Input Channels:—Two High-Gain, Two Low-Gain
- Tapped Output Impedance:—.35 to 500 Ohms
- Plug-in Connections for Two A.C. Dynamic Speakers

System No. 542-P—Consists of Lafayette Model 177-A amplifier complete with tubes and 177-DF metal screen cover, two Rola 12" high-fidelity a.c. dynamic speakers with type 83 rectifier tubes, and two YY19838 flared baffles. For operation on 110 volts, 50-60 cycles a.c. Shpg. wt. 75 lbs. Code SELDA.
List Price **\$145.35**

Mike Combination No. 603-P—Consists of Lafayette Velocity mike YN13572, chrome plated floor stand YM13528 and 25 ft. of heavy duty cable. Shpg. wt. 22 lbs. Code SWIVO.
List Price **\$54.88**

THE model 542-P system is a wide-range, high-quality and high-power assembly built around the model 177-A amplifier illustrated and described on the preceding page. The accessories included to make up the system comprise two Rola 12" high-fidelity a.c. dynamic speakers that incorporate their own field supply, and two directional flare baffles described on page 44 (YY19838). The speakers are capable, between them, of carrying the entire output of 18-watts, and reproduce the entire audible range with true high-fidelity. The flare baffles are designed to project the sound in a definite direction to obtain maximum desirable coverage. Baffles are shipped knocked-down, but can be assembled in a few minutes using only a screwdriver.

Because of its relatively high output—18-watts into a 500 ohm line—the system has many uses in the P.A. field. It is ideally suited for installations in dance halls, small theatres, restaurants, auction rooms, etc., and can easily be made adaptable for outdoor use in beer gardens and similar places by simply substituting weatherproof trumpets (as listed on page 42) for the flared baffles regularly supplied. In using the system, speakers can be placed any distance from the amplifier, due to the use of a 500-ohm transmission line (practically no line losses). Long-lived, trouble-free operation is assured by the use of only the finest materials—all components are designed to provide ample safety factor under normal use.



Mike Combination No. 600-P—Consists of Universal Velocity mike YN13638, floor stand YM13528 and 25 ft. cable. Shpg. wt. 22 lbs. Code SWARE.
List Price **\$38.20**

Mike Combination No. 604-P—Consists of Piezo-Astatic Crystal mike YN13363, floor stand YM13528 and 25 ft. cable. Shpg. wt. 14 lbs. Code SWIKA.
List Price **\$38.20**

Mike Combination No. 602-P—Consists of Brush Sound-Cell mike YN13623, floor stand YM13528 and 25 ft. cable. Shpg. wt. 14 lbs. Code SWOMA.
List Price **\$60.70**

The amplifier used with the system provides a total of four input channels (see full description on page 8). Two of these are high-gain channels permitting direct operation with sound-cell or velocity type microphones such as those illustrated at the left. Two mikes can be used simultaneously, and reproduction can be mixed together or faded from one to the other by means of the dual-input fader controls incorporated in the circuit. The two low-gain channels can be used for phonograph pick-ups, electric guitars, and other similar devices. The dual-input controls are so arranged that reproduction from one mike and one low-gain input, or two low-gain inputs, or from two mikes, can be mixed together or faded from one to the other. All controls are mounted on the amplifier panel, and are clearly marked. Connections can be quickly made to the binding post and jack terminals. Full instructions are furnished.

The above system is regularly supplied for operation on 110 volts, 50-60 cycles a.c. Systems for operation on 220-240-250 volts, 50-60 cycles a.c. can be supplied on special order. Full details and price information furnished on request.

MULTI-PURPOSE STUDIO AMPLIFIER

This deluxe amplifier, using essentially the same circuit as the model 177-A amplifier, has been especially designed for installations where neat appearance plus extreme flexibility of operation are required. With this thought in mind, a special full standard size rack panel was designed to provide a "studio" effect. The panel is for standard 19" rack mounting, is constructed in one piece, and is finished in contrasting silver matte and rubber-black. All dial markings are etched in black directly on the panel.

Several circuit features, in addition to those described for the 177-A amplifier on page 8, have been included. These are: **TWO TONE CONTROLS**, one in each of the high-gain mike channels, allowing individual response control of reproduction from mikes, etc.; **FIELD SUPPLY** for two 2500-ohm or four 5000-ohm dynamic speakers (35 watts); **MASTER GAIN CONTROL** for controlling overall audio gain; **PLATE MILLIAMETER** mounted on panel indicates condition of output tubes. In all,

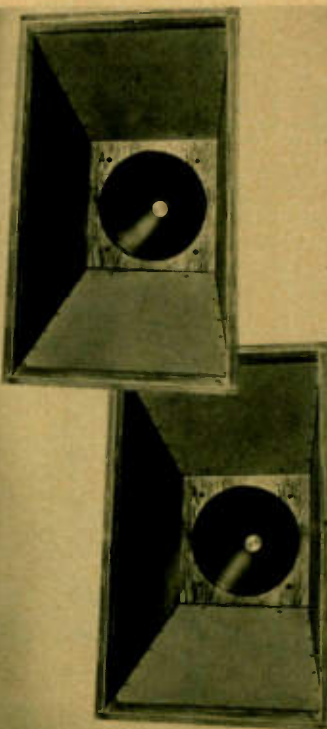
there are five controls: two tone controls, two dual-input fader controls, and one master gain control.

Model 179-A—Lafayette 18-Watt DeLuxe Multi-Purpose Studio amplifier with panel for standard rack mounting. Less tubes and cabinet. For 110 volts, 50-60 cycles a.c. Shpg. wt. 45 lbs. Code AMKOR **\$85.00**
List Price

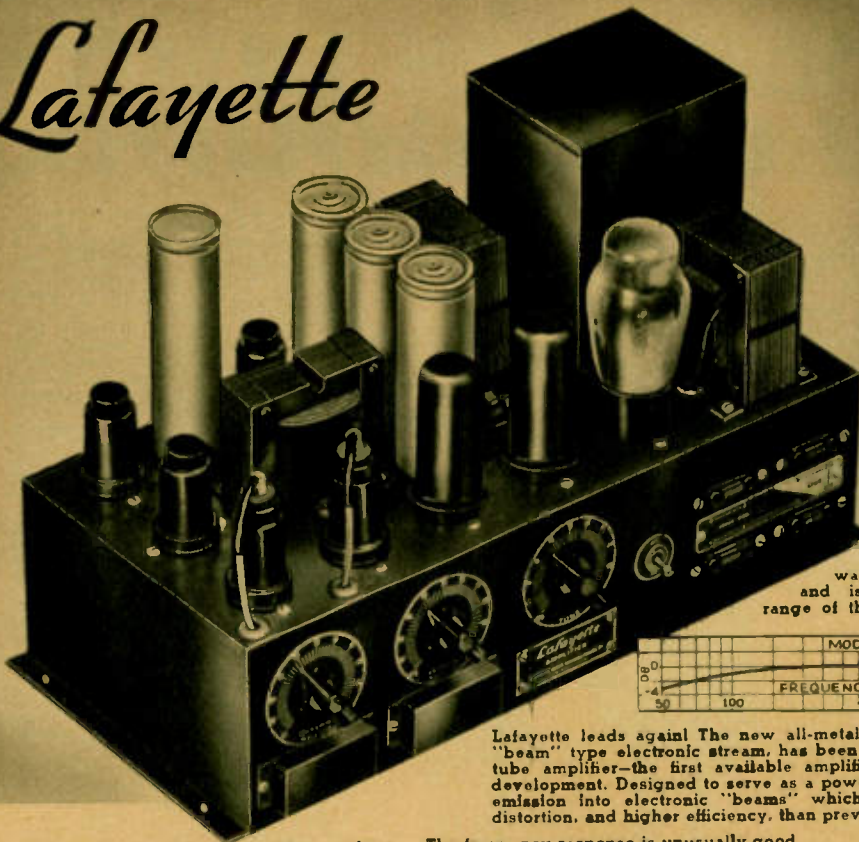
Kit of tubes for above, 2-75's, 2-6A6's, 2-6B5's, 1-83. List Price **\$9.87**

Metal cabinet for above amplifier. Black crystalline finish. Has door in top. 10 1/2" high, 12" deep. Shpg. wt. 22 lbs. **YY22003**—List Price **\$10.90**

System No. 505-P—Consists of model 179-A amplifier complete with all tubes but less cabinet, two Rola d.c. 12" high-fidelity dynamic speakers YW19241, and two YY19838 flare baffles. For 110 volts, 50-60 cycles a.c. Shpg. wt. 80 lbs. Code SOROS. List Price... **\$160.67**



Lafayette



25 WATT

with the New

"BEAM"

POWER TUBES

The response curve illustrated below was plotted under actual load conditions and is graphic proof of the high-fidelity range of the new 25-watt "beam" tube amplifier.



Lafayette leads again! The new all-metal tube, type 6L6, which makes use of the "beam" type electronic stream, has been incorporated in this new 25-watt all-metal tube amplifier—the first available amplifier to make use of this remarkable new development. Designed to serve as a power output tube, it concentrates the cathode emission into electronic "beams" which result in greater output, less harmonic distortion, and higher efficiency, than previously obtainable.

THIS up-to-the-minute amplifier employs seven all-metal tubes (2-6C5's, 2-6J7's, 1-6C5, 2-6L6's) in a circuit so modern that it is the first amplifier of its type available.

AMPLE GAIN FOR CRYSTAL AND VELOCITY MIKES

A power of 25 usable watts is realized into a 500-ohm line, with a peak rating of 35 watts, and quality reproduction hits a new high with a harmonic content of only 5% at the working output! An overall gain of 135.8 db (at 5-megohm input impedance) offers a sensitivity reserve for any type of microphone now used.

4 INPUT CHANNELS—

2 HIGH GAIN, 2 LOW GAIN

In addition to the Electronic mixer in which one high-gain and one low-gain or two low- or two high-gain channels are flawlessly mixed, two dual-input faders are provided. These controls permit the fading of a high-gain channel and a low-gain input, thus offering many novel and theatrical effects for stage and orchestra. A constantly variable tone control adds further to the tonal flexibility.

VARIABLE OUTPUT IMPEDANCES

An over-sized output transformer offers the following output impedances: .35/6/1.35/2/4/6/8/15/50/250/500 ohms. These outputs permit correct matching of various speaker line impedances to the amplifier.

The frequency response is unusually good and easily comes within the high-fidelity classification; it is conservatively rated at 50 to 12,000 cycles within 3 db.

SIMPLE TO INSTALL

The entire amplifier is designed so as to facilitate and simplify installation. It can be operated by anyone. Two 6-prong plug-in sockets on the rear of the chassis are provided for quick and easy connection of the loud speakers; each socket also supplies 110 volts a.c. for each speaker. All input terminals are shielded and the output terminals are in the form of convenient tip-jacks.

ACCESSIBLE FUSE FOR SAFETY

A line fuse, mounted right on the chassis where it can be changed in a jiffy, is for protection against overloads. The chassis is spot-welded heavy-gauge steel, finished in rubber-black and measures 7 x 6½ x 3½" high. It can be mounted on a rack-panel if the user so desires.

Model 262-A—Lafayette 25-watt metal tube amplifier less tubes and protective screen. For 110 volts, 50/60-cycle a.c. operation. Code AGROS. **\$69.00**
Shpg. wt. 32 lbs. List Price
Kit of tubes: 3-6C5, 2-6J7, 2-6L6, 1-83.
List Price **\$11.94**

Available for 220-, 240- or 250-volt, 50/60 cycle a.c. operation on special order at a slight additional cost. Write for details.

- #### TECHNICAL CHARACTERISTICS
- Peak power output 35 watts
 - Maximum output into 500-ohm line . . . 25 watts
 - Harmonic content (at 25 watts) 5%
 - Hum level (below 25 watts) -48 db
 - Overall Gain of High-Gain Channels . . . 137.8 db
 - At 5-megohm input impedance 120.6 db
 - Overall Gain of Low-Gain Channels . . . 85.8 db
 - At 500,000-ohm input impedance 80.6 db
 - Line consumption 125 watts
 - *Highest value of present-day input devices.



PROTECTIVE STEEL SCREEN TO FIT THE 25-WATT AMPLIFIER

Model 262-DF—The protective screen is illustrated above as it appears when mounted on the amplifier. It is constructed of rigid, spot-welded steel and offers complete protection for the tubes and components that are mounted on the chassis, as well as enhancing the appearance of the amplifier. Slips on or off quickly and easily. **\$2.95**
Shpg. wt. 5 lbs. List Price

The photo at left is a view of the dining room in the Bronx Elks Club Building in New York City. This spacious room also serves as a ball-room for functions, as well as a banquet hall. A Lafayette High-Fidelity System, which is part of this room's equipment, assures ample coverage with brilliant reproduction.



ALL-METAL TUBE AMPLIFIER

with ELECTRONIC MIXER

In order to realize to the utmost the efficiency, power and high-fidelity characteristics of the 25-watt all-metal tube amplifier described on the preceding page, Lafayette engineers have assembled a complete system which is capable of excellent acoustical coverage and wide-range response.

IDEAL FOR INDOOR AND OUTDOOR USE

The system is admirably suited for indoor use in auditoriums, churches, dance-halls, dining rooms, taverns, etc., and temporary outdoor use for political demonstrations, athletic fields and fairs. (Suitable baffles for permanent outdoor application, where complete weather-proofing is essential, can be found on pages 42 and 44.)

CHOICE OF MICROPHONE

It will be noticed that no microphone is included in the system. This is due to the fact that the particular purpose for which the system is to be used will govern the choice of microphone; as regards sensitivity, directiveness, physical dimensions, etc. This system is assembled so as to allow this leeway.

Three suggested units are illustrated in the upper right-hand corner of this page; they are respectively the model D-104 Piezo-Astatic Crystal microphone, the Brush B2S Sound Cell and the Lafayette Velocity microphone. Prices of these units, sold as convenient combinations which include an attractive chromium-finished floor stand and necessary cable, are listed below. Additional microphones and accessories are listed on pages 39, 40 and 41.

INCLUDES 4 POWERFUL 12" SPEAKERS

Regardless of the costliness and efficiency of an amplifier, it is no better than the loud speakers into which it feeds. With the full realization of this important fact, Lafayette engineers have carefully chosen the reproducers so as to maintain the quality capabilities of the amplifier throughout the entire system. These units are illustrated below and constitute an admirable match for the

amplifier as regards power-handling capacity and fidelity of reproduction.

Each loud speaker is a Lafayette Special P.A. dynamic reproducer with a full 12" cone and a built-in hum-free rectifier employing a 25Z5 tube. It is designed to operate from 110/120-volts, 50/60-cycles a.c.

WIDE-RANGE RESPONSE

Frequency response is excellent—the entire audio spectrum is covered to suit the most fastidious musical ear. Power-handling capacity is more than ample to permit safe handling of considerable power input when necessary to over-ride high noise levels, without distortion.

INCLUDES 4 WIDE-FLARE Baffles

Illustrated at the right are the four baffles which are included in the system. They are of the "knock-down" type and can be assembled in a few moments with nothing but one or two pocket tools.

NON-RESONANT CONSTRUCTION

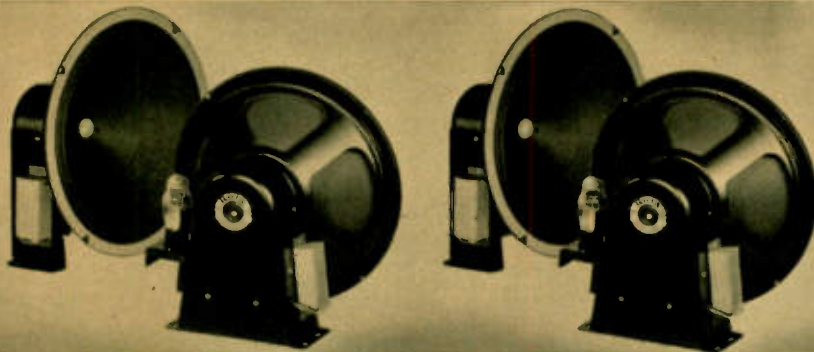
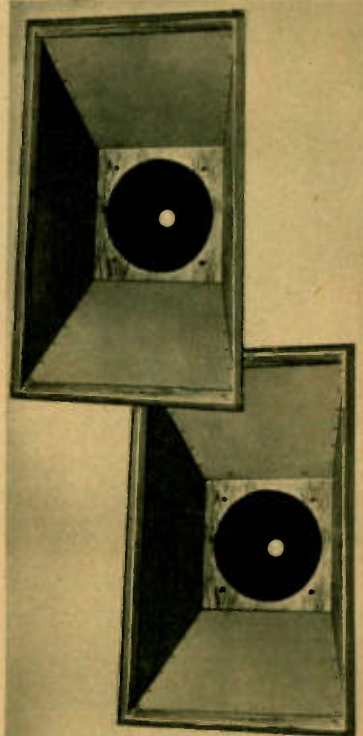
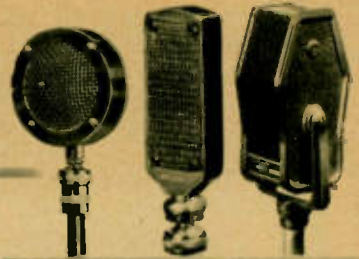
When completely assembled each baffle measures 14" deep with a bell opening 30" by 18"—a total mouth area of 540 square inches. The type of assembly and the material used insure absolute freedom from resonance effects and distortion-producing eddies in the channel of the baffle.

SUITABLE FOR USE EVERYWHERE

This type of baffle can be used practically for any type of installation either indoors or temporarily outdoors. It has excellent directional characteristics without undue emphasis, and is sturdy enough to withstand more than normal everyday use.

It should be noted that this system is not limited to four loud speakers. When required, six speakers, each having a capacity of four watts, can be used, or if three watts is sufficient eight speakers can be used, etc.

Complete listings of all types of speakers, baffles and flares to fit all requirements and budgets are found on pages 42, 43 and 44 of this catalog. Sufficient technical information is given with each unit to permit decision as to the number that can be used.



PRICES OF THE 25-WATT COMPLETE SYSTEM AND MICROPHONE COMBINATIONS

System No. 559-P—Consists of the Model 262-A Lafayette 25-watt all-metal tube amplifier complete with all tubes and protective screen, four Lafayette Special P.A. a.c. speakers YW19249 and four flare baffles, YY19838. For 110-volt, 50/60-cycle a.c. operation. Shpg. wt. 125 lbs. **\$178.95**
Code SPEVO. List Price

Available for 220, 240 or 250-volt, 50/60-cycle a.c. operation on special order at a slight additional cost. Write for details.

MICROPHONE COMBINATIONS

Microphone Combination No. 600-P
—Consists of Universal microphone No. 13638, floor stand No. 13528, 25 feet of high-quality rubber-covered cable and a plug. Shpg. wt. 22 lbs. Code **\$38.20**
SWARE. List Price

Microphone Combination No. 602-P
—Consists of model B2S Brush Sound-Cell microphone No. 13623, No. 13528 floor stand, 25 feet of high-quality rubber-covered cable ended with plug. Code SWOMA. Shpg. wt. 15 lbs. **\$60.70**
List Price

Microphone Combination No. 603-P
—Consists of Lafayette Velocity microphone No. 13572, No. 13528 floor stand, 25 feet of high-quality rubber-covered cable with end plug. Code SWIVO. Shpg. wt. **\$54.88**
22 lbs. List Price

Microphone Combination No. 604-P
—Consists of model D-104 Piezo-Astatic Crystal microphone and a No. 13528 floor stand with 25 feet of high-quality rubber-covered cable with plug. Code SWIWA. Shpg. wt. 15 lbs. **\$38.20**
List Price

Lafayette

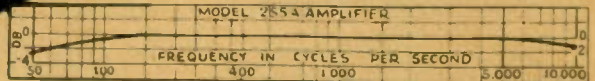


38 WATT

4 INPUTS

2 HIGH-GAIN CHANNELS

2 LOW-GAIN CHANNELS



2 DUAL-INPUT FADERS PLUS ELECTRONIC MIXER

The excellent response characteristics of the amplifier are graphically shown by the curve at the right: Within 2 db from 50 to 10,000 c.p.s. One of the modern features incorporated into the design of the amplifier is the inclusion of two dual-input fader controls with provision for electronic mixing. Each control governs one high-gain and one low-gain channel, so that reproduction from two high-gain channels, from one high and one low-gain channel, or from two low-gain channels, can be mixed together or faded from one to the other at will. Controls are smooth and noiseless in operation and are governed from front of panel.

THE Lafayette 4-in-1 Amplifier is without doubt one of the finest units of its kind available today. By utilizing the experience gained from years of practical amplifier design, Lafayette engineers have made possible the incorporation in this single amplifier of four important functions. These are: built-in electronic mixer; high gain pre-amplifier; high power amplifier; 40-watt speaker field supply. By adding suitable microphones and speakers, a complete high-power system capable of high-fidelity reproduction can be assembled.

POWERFUL FIVE-STAGE CIRCUIT

The amplifier makes use of ten tubes in a powerful five-stage circuit as follows: 2-2A6's as voltage pre-amplifiers, 1-53 as mixer, 1-53 as voltage amplifier, 1-59 as driver stage, 4-46's in a push-pull parallel output stage and 1-83 mercury vapor rectifier. Output into a 500-ohm line is 38-watts, with only 7% harmonic content. Hum level is -42 db at 38-watts output; frequency response is within 2 db from 50 to 10,000 cycles per second.

FOUR INPUT CHANNELS PROVIDED

A total of four input channels is provided, two being high-gain and two low-gain. A stage of pre-amplification is included in each high-gain channel, so that overall amplification on these channels is ample for direct use of crystal, velocity or sound-cell microphones without additional amplification (see gain ratings in technical characteristics below). Two microphones can be used simultaneously on the high-gain channels, and reproduction can be mixed. Low-gain channels are suited for use with phonograph pick-ups, electric guitars, and other similar types of input devices having a relatively high-output level.

40-WATTS OF SPEAKER FIELD SUPPLY

Sufficient energy is furnished in the amplifier to supply 40-watts at 5000-ohms for speaker field excitation. Four 1250-ohm fields (at 10 watts each) can be excited. A pair of sockets on the rear of the chassis are provided for plug-in type speaker connection.

FULL-RANGE TONE CONTROL

A full range, continuously variable tone control is provided for limiting high frequency response to suit the individual requirements of the installation. This control is also helpful in eliminating difficulties involving feed-back. Control operated from front panel.

HIGH-QUALITY COMPONENTS USED

All transformers, filters, resistors and by-pass condensers used in the construction of the amplifier are of the highest quality. Ample safety factor is provided so that trouble-free service is assured.

Other circuit features include: plug-in connections for output circuits to simplify installation and to eliminate possibility of errors; output impedances available from .35 to 500 ohms (see technical box below); heavy gauge steel chassis with optional steel screen cover; all connections marked and instructions furnished. Overall finish in rubber-black; size 9 1/2" x 16 1/2" x 9 1/2" high.

Note: above amplifier for use on 110-volts, 50-60 cycles a.c. Amplifiers for use on 220-240-250-volts, 50-60-cycles a.c. can be supplied on special order. Write for detailed information.

Model 255-A—Lafayette 38-Watt 4-in-1 High Gain Amplifier, less tubes and screen cover. For operation on 110-volts, 50-60 cycles a.c. Dimensions: 9 1/2" x 16 1/2" x 9 1/2" high. Shpg. wt. 90 lbs. Code, ATLAS.

List Price **\$85.00**
 Kit of tubes for above, 2-2A6's, 1-53, 1-53, 1-59, 4-46's, and 1-83. List Price **\$10.00**

METAL SCREEN COVER ONLY

Model 255-DF—Steel screen cover. Provides perfect protection for amplifier components. Easy to install. Overall finish in rubber-black lacquer. Shipping weight 6 lbs. List Price **\$3.95**



TECHNICAL CHARACTERISTICS

Peak Output . . . 50 watts
 Max. Output into 500-ohm line . . . 38 watts
 Harmonic Content . . . 7%
 Hum level . . . -42 db
 Response within 2 db from 50 to 10,000 c.p.s.
 Output impedance: .35/.6/1.35/2.4/6/8/15/50/250/500 ohms.
 Average drain . . . 190 watts

Inputs: Four; two high-gain and two low-gain.
 Amplification:
 with high-gain channels at 5 megohms 137.2 db at 150,000* ohms 122 db
 with low-gain channels at 500,000 ohms 91.2 db at 150,000* ohms 86 db
 *Highest impedance of input device now in use.



The St. James Church, New York City, uses Lafayette equipment. This installation is typical of the type where power output between 30 and 40 watts is recommended for best overall results.

4 in 1 DUAL *High Gain* AMPLIFIER

with Electronic Mixing & DUAL-INPUT Fader Control

COMPLETE 38-WATT SYSTEM

THE Lafayette 38-watt high-gain amplifier system is built around the model 255-A amplifier illustrated and described on page 12. The system is capable of high-quality, high-powered reproduction, and finds many applications in the public address field. The assembly comprises the amplifier, four Rola 12" high-fidelity speakers and four directional flare baffles. Microphones are not supplied with the system, since any one of several highly efficient types may be used; illustrated at the lower left are three of the types most popular today, including crystal, velocity and sound cell microphones.

MULTI-PURPOSE SYSTEM

The system is powerful and affords fine quality reproduction so necessary for many types of public address installations. One case, typical of the type where from 30 to 40 watts of power is necessary, is shown in the church installation on page 12. In this installation a system similar to the Lafayette 508-P system was used to great advantage. Dance halls, where the noise level is high, are another example of places where the system will be found satisfactory. Other typical applications that come readily to mind include those in hotels, theatres, dinner clubs, skating rinks, taverns, school auditoriums, banquet halls, etc. In all of the above, the Lafayette 38-watt system will prove more than satisfactory; its reserve power (50 watts peak), its exceptionally fine response characteristics, and above all, its extremely flexible operating facilities make it the choice of those who desire the finest equipment available.

HIGH-FIDELTY SPEAKERS

The dynamic speakers selected for use with the system are Rola 12" high-fidelity d.c. dynamics. The frequency range of these units covers an extremely wide band of frequencies, so that the overall response of the system is truly high-fidelity in nature. Every note in the audible range, from lowest bass to highest treble, is reproduced faithfully. The speakers receive their field power from the amplifier, and are kept at maximum efficiency at all times. The full power output, including the peaks, is easily handled by the combination of four dynamic speakers. Complete technical characteristics of the Rola high-fidelity speaker will be found on page 43 of this catalog.

DIRECTIONAL FLARE BAFFLES

In all installations where high power is used (such as that provided by the Lafayette 38-watt system) it is necessary that sound be distributed to greatest advantage.

For this reason, suitable flare baffles have been furnished. These units act as efficient acoustic baffles, and at the same time confine the sound to a definite direction. Thus, maximum distribution of energy with least waste of power is made possible. The baffles are constructed of non-resonant material and are finished in aluminized lacquer. They are easily attached to the dynamic speakers. If desired, housings for the speakers can be added; see page 44 for listing of housings for the above baffles.

HIGH-QUALITY MICROPHONES

The system affords ample amplification for the direct use of crystal, velocity or sound cell type mikes. These input devices are the most efficient in use today, and contribute greatly to the overall high quality of the complete system. Because of the fact that there are many crystal, sound cell and velocity mikes of different manufacture, all suitable for the system, none has been supplied with the system. Illustrated at the lower left are three of the more popular units. These are, from left to right, the Lafayette Velocity mike, the Universal Velocity mike and the Brush

Sound Cell mike. Other suitable mikes will be found listed on pages 39 and 40. Mixing and dual-input fading facilities are also provided; see page 12 for full detailed description. Two low gain channels, for use with phonograph pick-ups, electric guitars, etc., are also included in the amplifier.

The system can easily be converted for use in outdoor installations by merely substituting weatherproof trumpets for the flare baffles that are supplied. Suitable trumpets listed on pages 42 and 44.

Systems for operation on 220-240-250 volts, 50-60-cycles a.c. can be supplied on special order; prices on request.

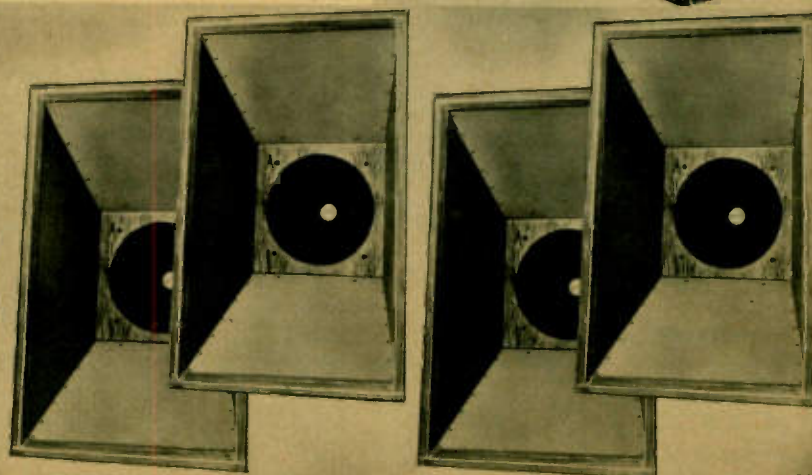
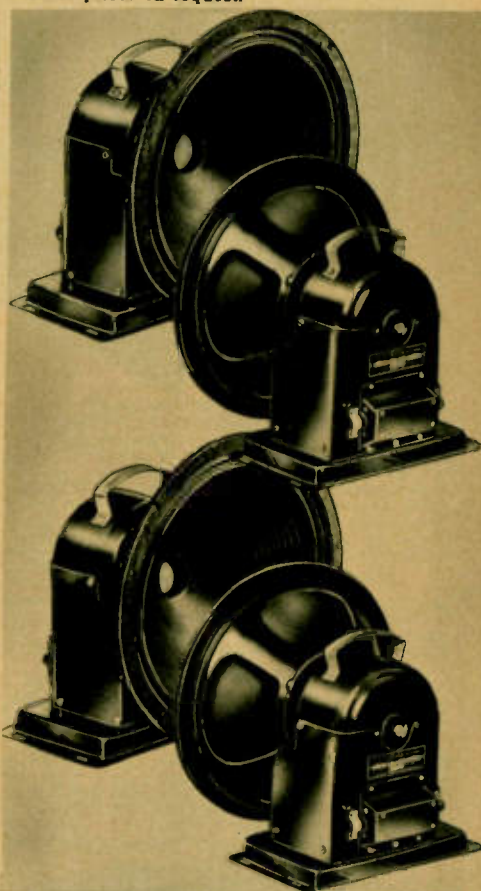
System No. 508-P—Complete Lafayette 38-watt high-gain 4-in-1 amplifier system. Consists of the following units: one Lafayette 38-watt high-gain amplifier model 255A, complete with all tubes and metal screen cover; four Rola 12" high-fidelity d.c. dynamic speakers YW19245, four directional flare baffles YY19838. No microphone equipment included. For operation on 110 volts, 50-60-cycles a.c. Shpg. wt. 155 lbs. Code SACKA **\$180.57**
List Price

Mike Combination No. 600-P—Consists of Universal Velocity mike YN13638, chrome plated floor stand adjustable from 37" to 67" (YM13528), 25 feet of heavy duty rubber covered cable and connecting plug. Code SWARE. Shpg. **\$38.20**
wt. 16 lbs. List Price

Mike Combination No. 602-P—Consists of Brush Sound Cell mike Model B2S (YN13623), chrome plated floor stand adjustable from 37" to 67" (YM13528), 25 feet of special heavy duty rubber covered mike cable and connecting plug. Code SWOMA. Shpg. wt. 15 lbs. **\$60.70**
List Price

Mike Combination No. 603-P—Consists of Lafayette Velocity mike YN13572, chrome plated floor stand adjustable from 37" to 67" (YM13528), 25 feet of special heavy duty rubber covered mike cable and connecting plug. Code SWIVO. Shpg. wt. 22 lbs. **\$54.88**
List Price

Other suitable microphones will be found listed on pages 38 and 39.



60 WATT

HIGH-POWER

Single Unit

AMPLIFIER

with

COMPLETE ELECTRONIC MIXING and FADING FACILITIES



The curve illustrated below was plotted under actual load conditions and graphically illustrates the high-fidelity frequency response of this amplifier.



THE Lafayette 60-Watt amplifier marks a noteworthy step forward in design practice. While, heretofore, amplifiers of this power rating were furnished as two separate units, (driver and power stage), Lafayette engineers have succeeded in developing a high-power, high-fidelity amplifier which is completely contained on one compact chassis and incorporates an Electronic mixer and faders as well

FULL 60-WATT OUTPUT WITH ONLY 5% HARMONIC CONTENT

The circuit is an exclusive Lafayette development and employs twelve tubes (2-2A6's, 2-53's, 6-46's, 1-59, 1-83) to put 60 USABLE watts into a 500-ohm line—with the amazingly low harmonic content of 5%. Peak output is 100-watts. The hum level is 45 db below maximum output.

HIGH-FIDELITY RANGE, 50-10,000 CYCLES—GAIN, 141.2 DB

With a frequency response of 50 to 10,000 cycles within 2 db, the quality of its output is truly high-fidelity. Its extremely high gain of 141.2 db (at 5 megohms input impedance) insures perfect results from low level devices such as velocity, sound cell and crystal microphones, without the need of additional apparatus. A total of four input channels are provided: Two are high-gain, high-impedance, thus permitting the simultaneous use of two velocity, crystal or sound cell microphones; the other two are designed to handle high-level devices such as phono-pickups, carbon microphones and electric guitars. A gain of 95.2 db (at 500,000 ohms input impedance) is provided for the convenient operation of these units with maximum efficiency.

INCORPORATES ELECTRONIC MIXING AND FADING

An Electronic mixer—the scientific peer of all input systems—insures absolutely noiseless and faultless mixing and control of volume. This highly developed circuit is employed in conjunction with two "dual-input" fading controls that simultaneously fade and mix several arrangements of input devices. This feature is of inestimable value to the orchestra and theatre, and has proved itself to be a necessary adjunct to modern stage-craft. Wide-range tone-control is included to permit reduction of high-frequency response and to aid in overcoming feed-back difficulties.

HAS VARIABLE OUTPUT IMPEDANCES

Multi-output impedances are provided so as to offer extreme flexibility. Regardless of the type of installation, an output impedance is available so as to permit the loud speakers to be operated at their maximum efficiency. A novel tip-jack arrangement offers the following impedances: .35/6/1.35/2/4/6/8 15/50/250/500 ohms.

MOUNTED ON HEAVY-GAUGE STEEL CHASSIS

The construction of the amplifier is Lafayette throughout and conforms with the highest standards of the industry. The entire unit is mounted on a sturdy spot-welded steel chassis finished in attractive rubber-black and equipped with a bottom plate so as to afford maximum electrical and mechanical shielding.

CAN BE MOUNTED ON STANDARD RACK PANEL

The overall dimensions of the complete amplifier (less screen) are: 9 1/2" by 16 1/2" by 9 1/2" high. These measurements permit the mounting of the amplifier on a standard rack-panel for those who may desire this type of assembly.

Other features include: shielded input terminals, a protective fuse in the a.c. line, two 6-prong sockets on rear of chassis for direct connection of speakers (both furnish 110 volts a.c. controlled by a switch on front of chassis), and a 6-foot approved rubber-covered cord and plug.

Model 290-A Lafayette 60-Watt High-Fidelity amplifier, less tubes and protective screen. For 110-volt, 50/60-cycle a.c. operation. Code ALMIA. Shpg. wt. 90 lbs.

List Price **\$105.00**
 Kit of tubes (2-2A6's, 2-53's, 6-46's, 1-59, 1-83). List **\$12.56**
 Available for 220, 240 or 250-volt, 50/60 cycle a.c. operation at a slight additional cost. Write for complete details.

Never before has an amplifier with this power rating and quality been available as a single compact unit and at such a remarkably low price. Not only have Lafayette engineers succeeded in combining driver and power stages on a single chassis, but they have gone even further than that—an Electronic mixer, pre-amplifier and faders are included! Everything, with the exception of field supply, is included for high-power, high-fidelity amplification. Field supply is omitted for efficiency of installation.

TECHNICAL CHARACTERISTICS

Peak power output 100 watts
 Maximum output into 500-ohm line 60 watts
 Harmonic content (at 60 watts) 5%
 Hum level (below 60 watts) 42 db

Gain of High-Gain Channels

At 5 megohms input impedance 141.2 db
 At 150,000 ohms* input impedance 126 db

Gain of Low-Gain Channels

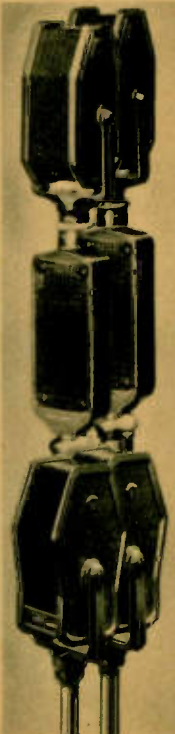
At 500,000 ohms input impedance 95.2 db
 At 150,000 ohms* input impedance 90 db
 Frequency response 50-10,000 cycles within 2 db
 Outputs: .35/.6/1.35/2/4/6/8/15/50/250/500 ohms.
 Power consumption from a.c. line 200 watts
 *Highest impedance of input devices in use today.



PROTECTIVE STEEL SCREEN

This screen is sturdily constructed of heavy-gauge steel and offers complete protection, as well as enhancing the appearance of the amplifier. It is finished in rubber-black to match the main unit, and slips on or off simply and quickly. Shpg. wt. 6 lbs.

Model 290-DF, List Price \$3.95



25 WATT



HIGH-FIDELITY A.C. AMPLIFIER BY Lafayette

USES NEW "BEAM" TYPE ALL-METAL TUBE

FURTHER development on the Lafayette High-Fidelity Amplifier which caused such a sensation in the sound engineering field (see "Radio Engineering" for Jan. 1935) has resulted in this new, unsurpassed unit. Outstanding among its many new features is the inclusion of two ultra-modern type 6L6 all-metal "beam" type power output tubes.

Its increased response shatters all previous conceptions of high-fidelity reproduction. An exceedingly wide range of 20 to 17,000 cycles, within the phenomenal limits shown on the curve, makes it the ideal amplifier for precision laboratory measurements.

OVERALL GAIN IS 90.9 DB

An overall gain of 90.9 db is realized with a power output of 25 watts into a 500-ohm load. A high-impedance (.5 megohm) input permits direct connection of high-impedance devices. Noiseless gain control and wide-range tone control increase the flexibility of the amplifier. The tube complement consists of 2-6L6's, 2-56's, 1-53 and an 83 rectifier.

While the amplifier itself has an output impedance of 6,000 ohms, the use of either transformer listed below offers the many output impedances indicated. Output characteristics of each are shown on the curve.

Model 118-A—Lafayette High-Fidelity 25-Watt a.c. amplifier, less tubes, screen and output transformer. For 110 volts, 50/60 cycles a.c. Code AMECO. Shpg. wt. 45 lbs.

List Price **\$66.00**

Model 118-DF—Protective steel screen illustrated above. Attractively finished to match amplifier. Shpg. wt. 5 lbs.

List Price **\$2.90**

Kit of tubes: 1-53, 2-56's, 2-6L6's, 1-83. List Price **\$7.52**

Model 119-A—25-Watt High-Fidelity amplifier furnished as above, but mounted on standard rack-panel, 8 3/4 x 19". Finished in rubber-black. Code AMBRA. Shpg. wt. 45 lbs.

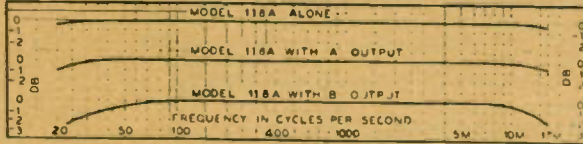
List Price **\$71.00**

YE 5666—Type "A" output transformer. Output impedances: 1.2/2.5/7.5/10/15/20/30/50/125/200/250/333/500 ohms. Input impedance, 6,000 or 10,000 ohms, plate to plate.

Shpg. wt. 10 lbs. List price **\$25.00**

YE 5665—Type "B" output transformer. Same specifications as above. Shpg. wt. 7 lbs. List Price **\$7.90**

Available for 220-240-250 volts, 50/60 cycles at higher prices.



TECHNICAL CHARACTERISTICS

OUTPUTS: Peak, 35 watts—Max. into 500-ohm load	25 watts
Harmonic Content	Gain at 500,000 ohms
At 25 watts	input impedance
At 20 watts	Gain at 150,000* ohms
Hum Level (below 25 watts)	input impedance
minus 55 db	Amplifier input
Frequency Response	500,000 ohms
20-17,000 cycles	

*Highest impedance of input devices commonly used.

HIGH-FIDELITY D.C. AMPLIFIER

LAFAYETTE engineers have succeeded in designing a direct-current amplifier which is capable of so fine a quality and power output that it is far above comparison with any other available amplifier of its type.

96.4 DB GAIN FOR CRYSTAL MICROPHONES

A specially designed 3-stage circuit employing a total of six tubes, provides the exceptional gain of 96.4 db at an input impedance of 500,000 ohms, and a gain of 91.2 db at an input impedance of 150,000 ohms. This permits the use of crystal microphones without pre-amplification, as well as high-level devices such as carbon microphones, phono-pick-ups or electric guitars.

FREQUENCY RESPONSE—20 TO 12,000 CYCLES

This phenomenal response places this amplifier in the real high-fidelity class. Separate models are available—one, without an output transformer, has an output impedance of 2500 ohms; another has a type B average-quality output transformer built-in. A high-fidelity output transformer (type A) is available for external mounting.

PROVIDES OUTPUT OF 10 WATTS AT 7 1/2 %

Its output of 10 watts (harmonic content at this output, 7 1/2%), with a peak output of 15 watts (equivalent to an average level of 32.2 db and a peak level of 33.9 db) is convincing proof of the superiority of this amplifier over any other direct-current unit within its price range.

HAS VARIABLE OUTPUT IMPEDANCES

Both type "A" and type "B" transformers, specified above, provide the following output impedances: 1.2/2.5/5/7.5/10/15/20/30/50/125/200/250/333/500 ohms.

NOISELESS GAIN AND WIDE-RANGE TONE CONTROLS

A noiseless volume control and a highly-efficient tone control are mounted on the front of chassis.



Lafayette

Quality Throughout!

Model 114-A—Lafayette d.c. High-Fidelity amplifier, less tubes and output transformer. Output plate impedance, 2500 ohms. Size, 15 1/2 x 8 x 8" high. For 110 volts, d.c. Code AMTES. Shpg. wt. 32 lbs.

List Price **\$55.00**

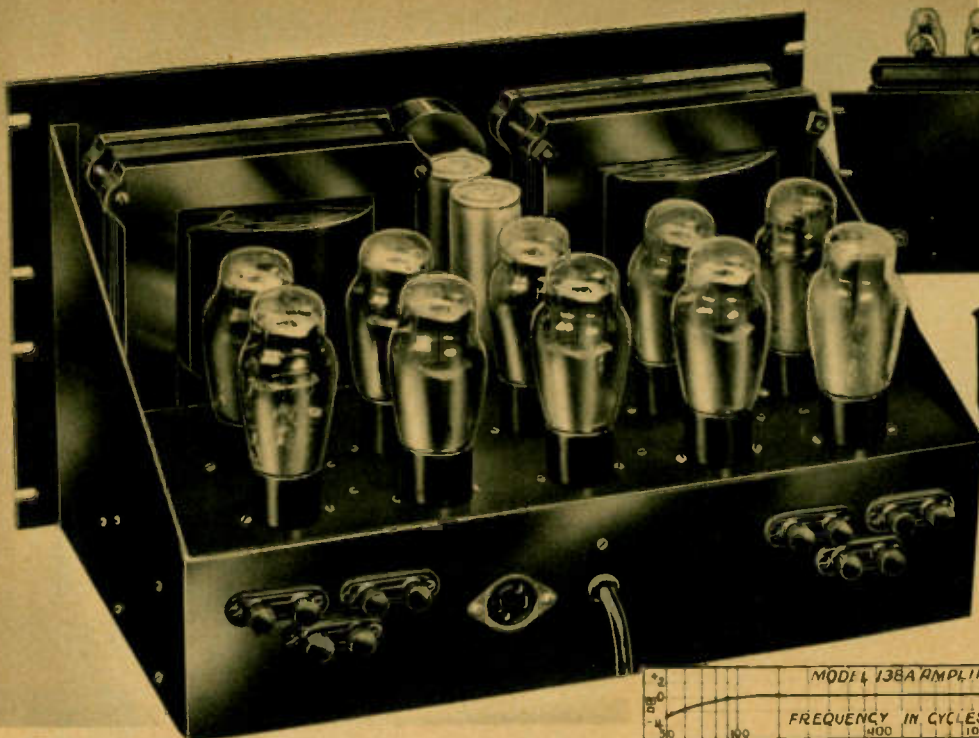
Model 110-A Lafayette d.c. High-Fidelity amplifier, less tubes but with built-in type "B" output transformer. Output impedances listed in text. For 110 volts, d.c. Code ANBER. Shpg. wt. 37 lbs.

List Price **\$62.90**

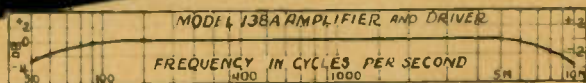
YC 2530—Type "A" high-quality output transformer. Output impedances in text at left. For external mounting. Shpg. wt. 12 lbs.

List Price **\$30.00**

Kit of tubes: 4-48's, 1-77, 1-37. List Price **\$21.66**



100 WATTS Output



THE model 138-A amplifier, pictured above, is the most powerful single amplifier in the Lafayette line. It is especially well suited for use wherever high power combined with high quality performance is required. Suggested applications include installations in airports, athletic stadiums, race tracks and in multi-speaker systems. The entire power stage, including power supply, is housed on a single steel chassis and is provided with a panel for standard 19" rack mounting.

USABLE POWER OUTPUT OF 100 WATTS

Installations of the type mentioned above require a relatively high **USABLE** power output. By usable power output we mean the actual power that can be transmitted to the final reproducers (loud speakers), and since a great majority of systems use a 500 ohm line, only this rating is of any importance. The power output of the 138-A amplifier, into a 500 ohm line, is a full 100 watts. In addition, harmonic content at 100 watts output is only 3%, indicating exceptionally good design.

CIRCUIT USES LOW-COST RECEIVING-TYPE TUBES

The circuit consists of a single push-pull parallel stage using eight type 46 tubes. The use of these low cost tubes in place of the high-priced transmitting types makes this amplifier one of the least expensive to operate on the market today. Quality, however, has not been sacrificed; components are the finest that modern engineering can provide. An oversized output transformer, especially designed for this particular amplifier, handles the peak output with remarkable efficiency. A pair of 83's (mercury vapor rectifiers) delivers the necessary high voltage through a well designed filter circuit that includes a Variactor filter reactor and high voltage electrolytics.

NO GRID-BIAS BATTERIES NECESSARY

Since the amplifier uses class B amplification, tubes are operated with a zero bias, thus eliminating the need for separate bias batteries. In other words, the unit is entirely a.c. operated, and works at maximum efficiency at all times. For this reason, the 138-A amplifier requires less attention than other types using a separate bias supply in the form of batteries.

LAFAYETTE 12 WATT DRIVER AMPLIFIER

The driver amplifier illustrated at the right was especially designed to work with the 100-watt amplifier.

The circuit employed uses six tubes, providing a gain of 80.7 db. Overall gain of driver and power stage is 95 db. Tubes used include 2-56's, 1-53, 2-2A3's and 1-5Z3 rectifier. Hum level (combined driver and power stage) is -50 db below 100-watts output.

The driver amplifier has a high-impedance input of 500,000 ohms, and is especially designed for use with multi-input mixers such as the one shown with the 100-watt system listed on page 17 (see page 28 for additional listing of electronic mixers and pre-amplifiers).

A master gain control, with graduated dial, is mounted on the front panel along with a full range tone control.

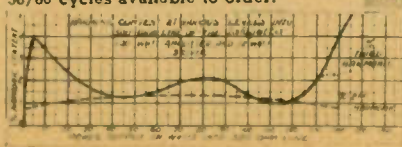
Tone control limits high-frequency response to suit individual requirements of the installation. A jeweled pilot light is furnished for "on-off" in-

dication. Chassis and panel are finished in rubber black lacquer.

Model 139-A—Lafayette 12-watt high fidelity driver for use with the 100-watt amplifier, less tubes. For standard rack mounting. Dimensions: 7" deep, 19" wide, 8 1/2" high overall. For 110 volts, 50-60 cycles a.c. Shpg. wt. 45 lbs. Code AMIAL. **\$59.00**

List Price
Kit of tubes for above, 2-56's, 1-53, 2-2A3's, 1-5Z3. **\$6.02**

List Price
Standard model for 110 volts, 50/60 cycles a.c. Models for 220-240-250 volts 50/60 cycles available to order.



TECHNICAL CHARACTERISTICS OF AMPLIFIER

Peak Output	160 watts
Maximum Output into plate load	125 watts
Maximum Output into 500 ohm line	100 watts
Harmonic Content	3%
Hum Level	-40 db
Gain	14.3 db
Power Consumption from the line	350 watts

TECHNICAL CHARACTERISTICS OF AMPLIFIER PLUS DRIVER

Harmonic Content	5%	Hum Level	-40 db
Gain	95 db	Power Consumption	460 watts

The frequency response of the amplifier covers the entire audible range. Since a driver must be used with the amplifier, the curve above is taken with the suggested driver (listed below). As shown, the response is within 3 1/2 db from 50 to 10,000 c.p.s.

Any high quality amplifier that can deliver 8 watts power output can be used to drive the 138-A amplifier at full efficiency. It is particularly recommended, however, that the model 139-A driver amplifier (listed below), delivering 12 watts power output, be used. This driver has exceptionally fine characteristics, to match those of the 100 watt unit, and when used, the combination shows a harmonic content of only 5% and a very low hum level.

In addition to the power line switch, the front panel contains a plate milliammeter to indicate condition of tubes, and a screw-in type fuse using a neon indicator. Chassis and panel are finished in gleaming rubber black.

Model 138-A Lafayette 100-watt amplifier, complete with tubes, less cabinet. Panel for rack mounting. Dimensions: 19" wide, 12" deep, 10 1/2" high overall. For 110 volts, 50-60 cycles a.c. Shpg. wt. 122 lbs. Code AMHIL. **\$163.00**

List Price
YY22002—All metal semi-portable carrying case for 138-A amplifier. Shpg. wt. 22 lbs. List Price **\$17.00**

Standard model for 110-volt, 50/60 cycles a.c.—Models for 220-240-250-volt, 50/60 cycles available to order at slightly higher price.



Lafayette CUSTOM-BUILT SUPER-POWER AMPLIFIER

COMPLETE 100-WATT P.A. SYSTEM

ILLUSTRATED at the right of the page is a complete 100-watt public address system based on the power stage listed on page 16. It contains within a single steel cabinet a three-channel electronic mixer and pre-amplifier, a 12-watt, high-fidelity driver amplifier, a 100-watt power stage and a monitor panel containing a permanent-magnet type dynamic speaker. Totally enclosed, it presents a particularly attractive appearance, and is compact and easy to handle. Access to tubes and parts is gained through a door in the rear of the cabinet.

Looking from bottom to top of the assembly, the first two panels comprise the 100-watt power stage and the 12-watt driver amplifier respectively. Both these units are fully described and illustrated on page 16.

THREE-CHANNEL HIGH-GAIN ELECTRONIC MIXER

The third panel from the bottom consists of a three-channel electronic mixer that provides a stage of pre-amplification on each channel. It uses six 2A6 tubes, three as mixers and three as pre-amplifiers. An overall gain of 133 db (at 150,000 ohms input, through power stage, driver and mixer) is realized. This gain is sufficient for direct use of crystal, or velocity or sound-cell type microphones without any additional amplification. Each of the three channels is high impedance (5-megohms). Separate gain controls, having graduated dials, are used for each channel. The other two controls consist of a master gain control and a full-range, continuously-variable tone control. The tone control is desirable for limiting high-frequency response to suit the individual requirements of the installation, and to help eliminate feed-back. Three microphones can be used simultaneously; three popular types are illustrated below, and other suitable microphones will be found listed on pages 39 and 40.

COMPLETE MONITOR PROVISIONS

The top panel of the assembly is the monitor unit, and consists of an 8" permanent magnet-type dynamic speaker, a control for governing monitor volume, and a multi-range output level indicator calibrated directly in decibels. A six-position selector switch governs the range of the output indicator from lowest to maximum output. The speaker opening on the panel is protected by means of a steel screen grille.

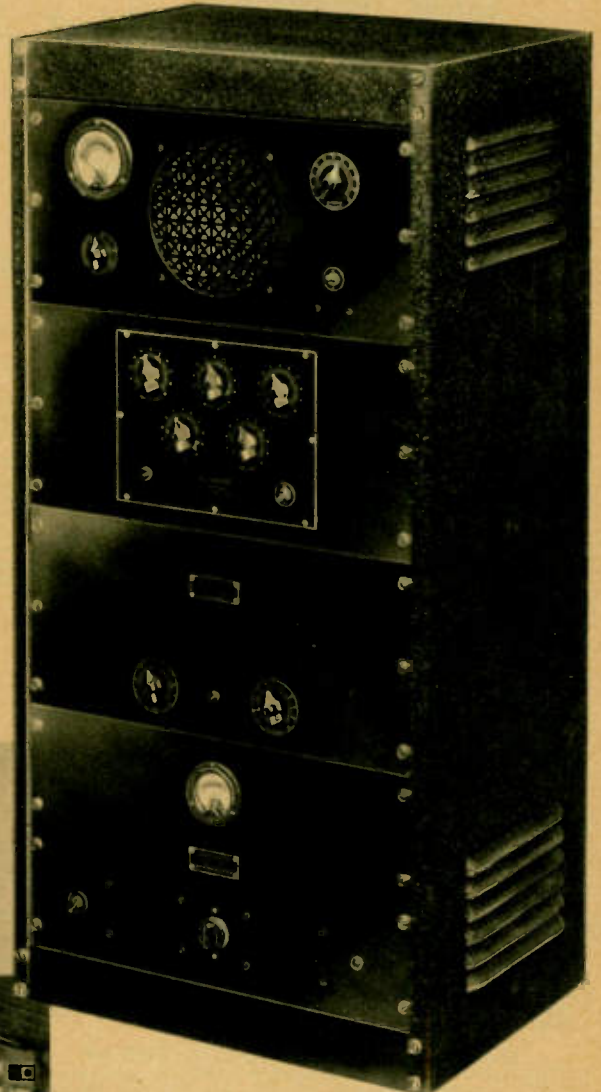
ALL-STEEL SINGLE UNIT RACK

The four panels making up the system are contained in a single enclosed rack constructed of 1/16" steel throughout. The back of the rack is in the form of a door, secured by two heavy latches. Sides are louvred to provide ventilation. Back has cutouts for cable entrances, etc. Entire rack is finished in crystalline black lacquer; panels are all finished in lustrous rubber-black. Overall size of entire assembly: 42" high, 19 1/4" wide, 13" deep. The entire system is designed to operate on 110-volts, 50-60 cycles a.c. No external batteries required. Each unit making up the system is

provided with its own power line switch. In addition, the power line switch on 100-watt panel controls entire rack.

Note: No speakers are listed with the system, since high-powered jobs invariably require special units. (See pages 42-44.)

The Lafayette 100-watt system can be used wherever high power plus high quality is required. Suggested applications include: installations in ball parks, in outdoor stadiums, in large auditoriums, in ball rooms, and other similar installations.

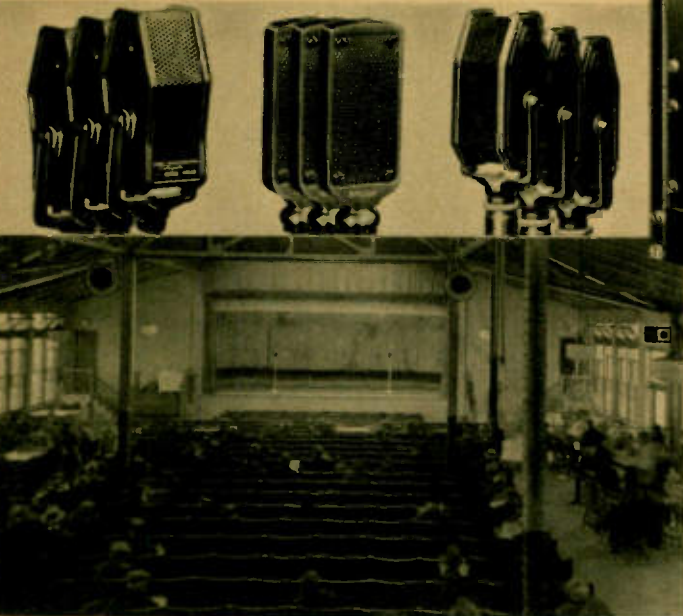


System No. 525-P—Lafayette 100-Watt Enclosed Rack P.A. System. Consists of the 100-watt power stage, 12-watt driver, three-channel electronic mixer and monitor speaker panel as described above. Complete WITH ALL TUBES. For operation on 110-volts, 50-60 cycles a.c. Shipping weight 210 lbs. Code, SPOMA. **\$390.00**
List Price

Mike Combination No. 609-P—Consists of Lafayette Velocity mike YN13572, floor stand YM13528, 25 ft. of cable and plug. Shipping weight 22 lbs. **\$54.88**
Code, SWIVO. List Price

Mike Combination No. 601-P—Consists of Amperite Velocity mike YN13565, floor stand YM13528, 25 ft. of cable and plug. Shipping weight 22 lbs. **\$56.20**
Code, SWETA. List Price

Mike Combination No. 602-P—Consists of Brush Sound Cell mike YN13623, floor stand YM13528, 25 ft. of cable and plug. Shipping weight 14 lbs. Code, SWOMA **\$60.70**
List Price



The picture above shows the theatre located on Welfare Island, New York, where a Lafayette 100-watt system is used with excellent results. Entertainment is supplied to theatre, hospital wards and park.

Lafayette PHONO-P.A. COMBINATION 6V-110V-AMPLIFIER



15 WATTS Output



• ESPECIALLY DESIGNED FOR "BALLYHOO" WORK

THIS radically new amplifier is designed especially for mobile sound work, as is required for political rallies and demonstrations, ballyhoo for coming merchandise sales, new films appearing at theatres, etc. It is not to be confused with modifications or adaptations of general-run amplifiers.

USED INDOORS OR OUTDOORS

The Lafayette combination amplifier has the additional and money-saving advantage of mobile or indoor use. It is compact enough so that it can be used in the smallest coupe, and is powerful enough for the average outdoor gathering or indoor auditorium, dance-hall, etc.

CAN BE OPERATED FROM 110-VOLTS A.C.

It can be installed permanently in a ballyhoo car or sound truck or, if preferred it can be connected so that at a moment's notice it can be removed from the car and be set up indoors for operation from any 110-volt, 50/60-cycle a.c. outlet by means of suitable power packs listed below at right.

IDEAL FOR POLITICAL CAMPAIGNING

This versatility lends itself admirably for use in political campaigning where it is first used in the car to obtain widespread attention to a coming meeting, and then removed from the vehicle for installation in the meeting hall as a regular P.A. system.

SUFFICIENT GAIN FOR CRYSTAL AND VELOCITY MICROPHONES

The Phono-P.A. combination incorporates a powerful 15-watt amplifier (output rated as into a 500-ohm line). Harmonic content at this output is 9%—well within tolerable limits for high-quality work. Overall gain is high—119.2 db (at 5-megohm input impedance). This permits the use of crystal, velocity (close talking), or sound-cell microphone with maximum efficiency from these excellent input devices. Because of the high input impedance (5 megohms), these units can be connected directly without the necessity of employing matching transformers.

USES HIGH-FIDELITY CRYSTAL PICK-UP

Quality reproduction of phonograph recordings is assured by the use of a high-fidelity crystal pick-up. This unit has the widest frequency response of all phono-pick-ups, and insures long life of records by maintaining correct needle pressure at all times. The pick-up arm is sturdily constructed of steel-finished in attractive black crystalline lacquer.

TECHNICAL CHARACTERISTICS

Peak output	18 watts
Maximum output into 500-ohm line	15 watts
Harmonic content (at 15 watts)	9%
Amplification (overall gain):	
High-Gain Channel	
At 5 megohms	119.2 db
At 150,000 ohms*	104 db
Low-Gain Channels	
At 500,000 ohms	74.2 db
At 150,000 ohms*	69 db
Output impedances:	.35/6/1.35/2/4/6/8/15/50/250/500 ohms.
Power consumption	.14 amps at 6 v.
*Highest value of input devices.	

• HAS 3 INPUT CHANNELS AND A DUAL-INPUT MIXER

A total of three inputs is provided; a high-gain and two low-gain, one for the phono-pick-up and the second, available through a convenient jack, for an additional high-level device such as a carbon mike, another phono-pick-up, electric guitar, etc.

All three inputs feed into a novel parallel mixer-fader circuit which permits simultaneous fading and mixing of the high-gain and either one of the two low-gain channels, or simultaneous fading of the two low-gain inputs. A separate tone control is provided for the phono-pick-up in addition to a master tone control for the resultant of all inputs.

Other controls include, a master "on-off" switch, a "stand-by" switch, a microphone jack, and jack for the second low-gain input.

ELECTRICALLY OPERATED PHONO MOTOR

It employs a two-speed phono-motor and turntable. This is not a spring motor but an electric unit operating from a 6-volt source. It is equipped with a speed control, "on-off" switch, and permits reproduction of either 78 or 33 1/3 r.p.m. records.

ADJUSTABLE CHASSIS SIDE FOR LEVELING

Mounted in a black, crystalline lacquered steel case with an adjustable side so that the unit can be leveled when placed upon a car seat. Overall dimensions: 11 1/4 x 12 1/4 x 14 1/2" high.

Model 578-P—Lafayette Phono-P.A. 6-Volt Amplifier as described, less tubes. Code, SGEBE. Shpg. wt. 72 lbs. \$149.00

List Price

Kit of tubes: 2-6B5's, 1-6A6, 1-6C6. List Price \$6.74

Model 1050-PP—Lafayette Power Pack to operate amplifier only. From 110-volts, 50-60-cycles a.c. Dimensions: 8 1/4 x 6 1/2 x 6 3/8" high. Code, PLEMA. Shpg. wt. 23 lbs. \$16.50

List Price

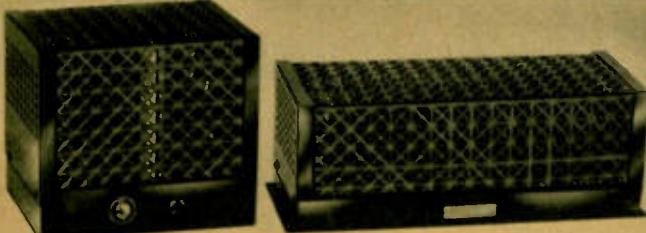
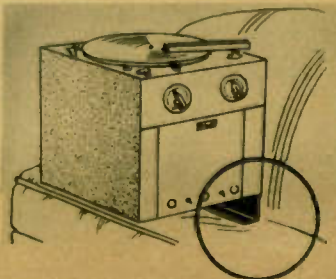
Model 1055-PP—Lafayette Power Pack to operate phonograph motor only, from 110-volts, 50-60-cycles a.c. Size: 12 x 6 x 4 1/2" high. Code, PLAVA. Shpg. wt. 23 lbs. \$29.00

List Price

THE COMPLETE SYSTEM—NOTHING ELSE TO BUY

Model 529-P—Comprises a complete system ready for operation from any 6-volt battery. Consists of the two Wright de Coster combination trumpet-speakers model 2050 (described on page 43) illustrated above, the hand-type crystal microphone model D-104HS Astatic (sound-cell or velocity may also be used; see pages 39 and 40), and the Lafayette Phono-P.A. Combination amplifier complete with all tubes. Shpg. wt. 115 lbs. Code, SCEMA. List Price \$222.24

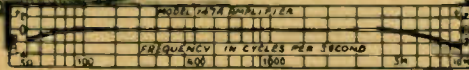
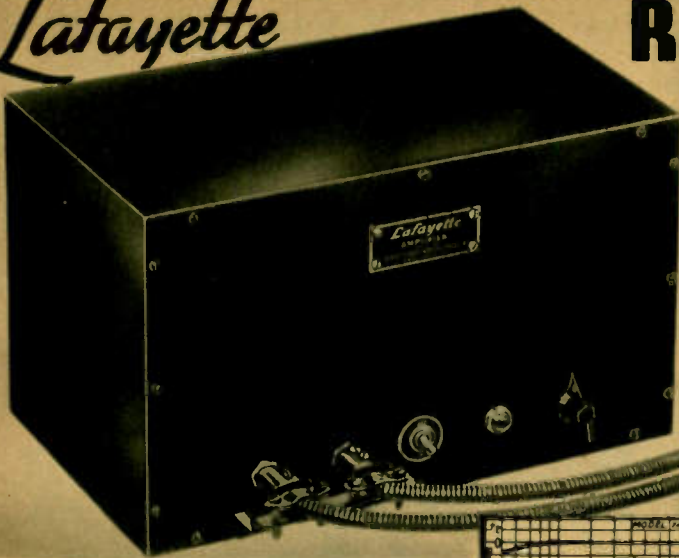
The illustration at the right shows a valuable feature of the new Lafayette Phono-P.A. Combination amplifier. The side of the amplifier case is adjustable so that it can be mounted level irrespective of the slope of the seat. This is another example of the care exercised in the design of all Lafayette products.



Lafayette

Remote Control 6 VOLT D.C. 110 VOLT A.C. CONVERTIBLE AMPLIFIER

15 WATTS



- Complete Mobile Amplifier Ideal For Outdoor Political Ballyhoo
- Compact—No Larger Than An Ordinary Auto Radio Receiver
- Easily Convertible From 6 Volts D.C. to 110 V. 50-60 Cycles A.C.
- Reliable Mechanically Operated Remote Control
- Stand-by Switch Operated From The Remote Control

THE Lafayette model 147-A amplifier is a remote control operated unit that can be mounted in a car in the same manner as an ordinary auto radio receiver. It can be used in pleasure cars or in commercial vehicles with equal facility, and in all cases it provides exceptionally fine tone quality (graphically pictured by the frequency response curve above).

HAS MANY USES IN THE SOUND FIELD

The amplifier is well suited for use in systems installed in street advertising trucks, political ballyhoo and speech mobile units (especially important in a presidential election year such as 1936), police alarm systems, etc. The amplifier can easily be manipulated by the driver of the car, while car is in motion, by means of the handy steering column remote control unit.

The amplifier uses four tubes in a powerful four-stage circuit as follows: 1-6C6 as a voltage amplifier, 1-79 as a phase inverter, and 2-6B5's in a push-pull output stage. An output of 15 watts is delivered into a 500-ohm line with 9% harmonic content; this harmonic content is allowable for all operating conditions encountered in mobile sound truck work. Peak power output afforded is 18 watts. Gain is ample for direct use of crystal or velocity (close talking) type microphones without the need for additional pre-amplification. Frequency response is exceptionally fine—within 3 db from 50 to 10,000 c.p.s.

2-INPUTS — FADING PROVISIONS

Two input channels are provided, one high-gain and one low-gain. The high-gain channel is designed for crystal or velocity (close talking) mike input; the low-gain channel can be used with phonograph pick-ups, electric guitars or other similar high output level devices. A built-in fader control, governed from the remote control unit, permits fading reproduction from high- and low-gain channels.

A stand-by switch, operated from the remote control unit, removes the B voltages from the circuit during periods when the amplifier is not in use. When the standby switch is thrown, approximately 11 amperes less current is drained from the battery—an important consideration.

OTHER CIRCUIT FEATURES

Additional circuit features include: a silent gene-motor, a full range tone control, a jeweled pilot indicator for "on-off" indication. Tone control and line switch are mounted on the amplifier panel. Entire assembly is finished in lustrous rubber black. Case dimensions: 12" x 7 1/4" x 7 1/2". Remote unit has clamp for steering column.

TECHNICAL CHARACTERISTICS MODEL 147-A AMPLIFIER

Peak Output 18 watts
 Max. output into 500-ohm line: at 9% Harmonic Content 15 watts
 at 6% Harmonic Content 12 watts
 Output impedance: .35/.6/1.35/2.6/8/15/50/250/500 ohms.

Inputs: Two—one high-gain, one low-gain.

Amplification:

Using the high-gain channel
 at 5 megohms 119.2 db
 at 150,000 ohms* 104 db

Using the low-gain channel
 at 500,000 ohms 74.2 db
 at 150,000 ohms* 69 db

Power Consumption 14 amps. at 6 volts
 *Highest impedance of input devices in use at the present time.

The amplifier is designed for operation from a six-volt storage battery, but can easily be converted for operation on 110 volts, 50-60 cycles a.c. by simply connecting the a.c. power pack listed below. Pack is easy to install.

Model 147-A—Lafayette convertible automobile amplifier with remote control unit. Less tubes. Dimensions: 12" x 7 1/4" x 7 1/2". Shpg. weight 32 lbs. Code AMDEN. **\$79.00**

List Price
 Kit of tubes for above, 1-6C6, 1-79, 2-6B5's. List Price **\$6.74**

Model 1650-PP—Special a.c. power pack to convert above amplifier for 110-volt, 50/60-cycle a.c. operation. Complete with 83 tube. Dimensions: 8 1/4" wide, 6 1/2" deep, 6 3/4" high. Shpg. wt. 23 lbs. Code PLEMA. **\$16.50**

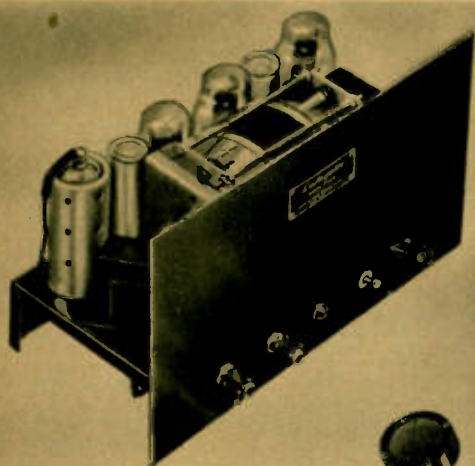
List Price **\$16.50**

COMPLETE SYSTEM

A complete system using the 147-A amplifier described above has been made available. It comprises the 147-A amplifier, one Piezo-Astatic crystal hand microphone with 12 ft. of cable and connecting plug, one Rola high-fidelity 12" six-volt dynamic speaker mounted in an aluminum dome baffle that has a mounting fixture (for top of car mounting). The system is easy to install, and provides exceptionally fine quality. Power output is ample for most applications.

For operating system on 110 volts, 50-60 cycles a.c., the a.c. power pack listed below must be used. A field exciter must also be used, or an a.c. speaker substituted for the one supplied.

System No. 554-P—Consists of Lafayette model 147-A amplifier complete with tubes, one Piezo-Astatic crystal hand microphone (YM13575) with 12 ft. of cable, one Rola high-fidelity 6-volt speaker mounted in an aluminum dome baffle (YY20040) with a fixture for mounting and a weatherproof cover. Shpg. wt. 60 lbs. Code **\$155.44**
 SELOR. List Price.....



Lafayette 6 VOLT DC 110 VOLT AC CONVERTIBLE AMPLIFIER

20 WATTS



Curve given below shows the unusually flat frequency response characteristics of the 254-A amplifier.



View above shows the 275-A amplifier with protective metal screen in place.

THE importance of sound truck equipment, due to the coming elections, will undoubtedly be greater this year than ever before, since the use of such equipment for political speeches and general ballyhoo work has proven highly successful. The Lafayette amplifier shown above provides the maximum in performance.

FOUR INPUT CHANNELS ARE PROVIDED

The powerful 5 stage circuit uses 2-75's, 1-6A6, 1-76, 1-6E6 and 4-79's, providing an exceptionally high gain. A total of four input channels is provided; two high-gain 5-megohm channels, and two low-gain 500,000-ohm channels. A built-in two-position electronic mixer furnishes a stage of pre-amplification on each of the high-gain channels. The low-gain channels are for use with phono-pick-ups, electric guitars, etc.; the high-gain channels are for use with velocity or sound-cell type microphones, two of which can be used at the same time. One of the most important features of the circuit, is the inclusion of two dual-input fader controls. Each of these faders controls a combination of a high- and a low-gain channel in such a manner that reproduction from two high-gain inputs, two low-gain inputs, or a combination of a high-gain input from one channel and a low-gain input from the other channel can be mixed together or faded from one to the other.

Other features include: silent gene-motor, tone control, both master and "stand-by" switches; output impedances tapped from .35 to 500 ohms; response within 2 db from 50 to 10,000 cycles per second.

TECHNICAL SPECIFICATIONS

Peak Output 30 watts
 Max. Output into 500 ohms:
 at 9% h.c. 20 watts
 at 6% h.c. 16 watts
 Output impedances:
 .35/6/1.35/2.4/6/8
 15/50/250/500 ohms.
 Frequency Response:
 within 2 db from 50
 to 10,000 cycles per
 second.
 Current Drain:
 18 amperes at 6 volts.

Four Input Channels:
 2 high-gain, 5 megohm.
 2 low-gain, 500,000 ohm.
 Amplification:
 HIGH-GAIN CHANNELS
 at 5 megohms 140.2 db
 at 150,000 ohms* 125 db
 LOW-GAIN CHANNELS
 at 500,000 ohms 100.2 db
 at 150,000 ohms* 95 db
 *Highest impedance of input devices now used.



Model 275-A—Six-Volt 20-Watt Convertible Amplifier, less tubes and metal screen. Dimensions: 9 1/4" x 17 1/2" x 9 1/2" high. Shpg. wt. 37 lbs. Code. **\$85.90**
 ACCES. List Price

METAL SCREEN COVER

The metal screen cover is sold separately from the amplifier. When used, it provides perfect mechanical protection to the amplifier components (tubes, parts, etc.) Constructed of heavy gauge steel with smooth black finish. Can be installed in a few minutes. Shpg. wt. 5 lbs.

Model 275-DF—List Price **\$3.00**
 Complete kit of tubes for above, 2-75's, 1-6A6, 1-76, 1-6E6 and 4-79's. List Price **\$10.42**

Model 1052-PP—A.C. power pack for operating model 275-A amplifier on 110-volts, 60-cycles a.c. 12 x 7 1/4 x 6 3/8" high. Shpg. wt., 27 lbs. Code. **\$17.90**
 PLIRE. List Price

System No. 501-P—Consists of Lafayette model 275-A amplifier complete with tubes, 275DF metal screen, and two Rola high-fidelity 12" speakers mounted in aluminum dome baffles. Shpg. wt. 160 lbs. **\$167.32**
 Code, SETRA; List Price

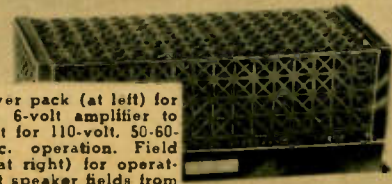
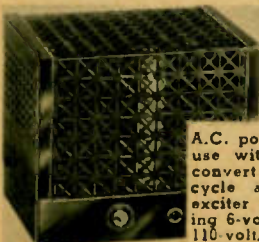
Model 1055-PP—Field Exciter for operating up to 3 six-volt speaker fields from 110-volts, 60-cycles a.c. 4 1/2 x 6 x 12" long. Shpg. wt. 10 lbs. Code. **\$29.00**
 PLAVA. List Price

Mike Combination No. 603-P—Consists of Lafayette Velocity mike YN13572 mounted on a floor stand YM13528 and equipped with 25 ft. of cable. Shpg. wt. 22 lbs. Code, SWIVO. List Price **\$54.88**

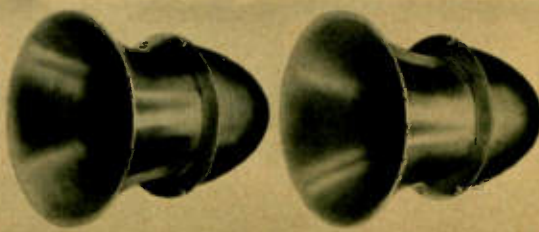
Refer to pages 11, 13 and 17 for other suitable microphone combinations for use with the above system.

DESIGNED FOR 6-VOLT OPERATION

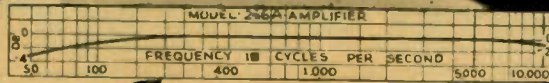
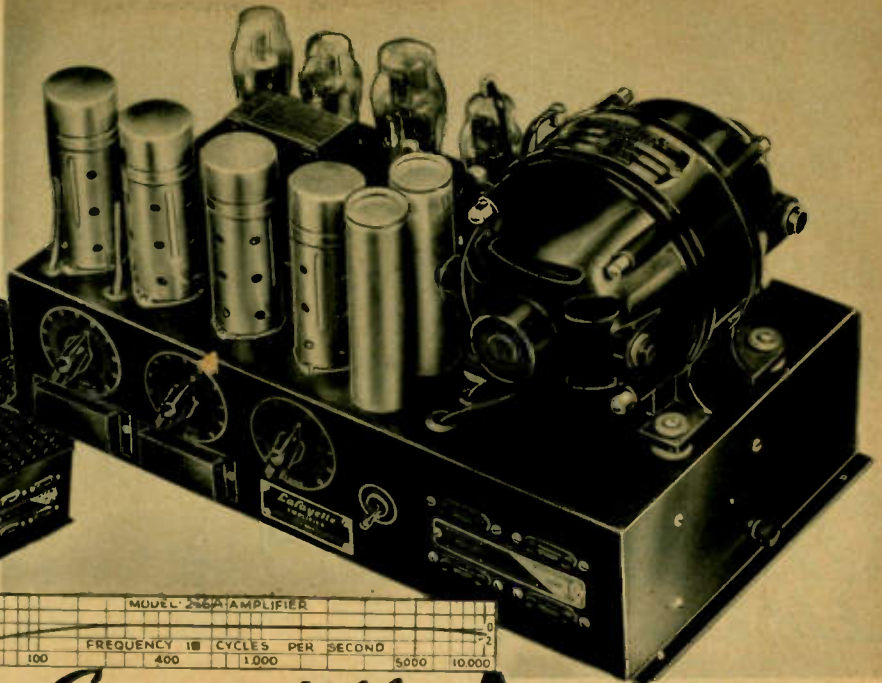
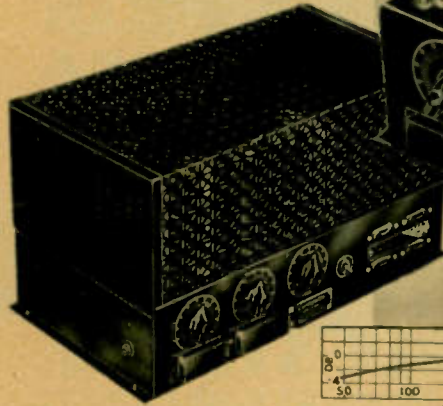
NOTE: The amplifier shown above has been expressly designed for 6-volt operation, and is NOT just an adaptation of an a.c. amplifier for sound-truck use. For a.c. operation use pack shown below. A field exciter unit (illustrated below) must also be used when operating 6-volt speakers with the 110-volt a.c. system.



A.C. power pack (at left) for use with 6-volt amplifier to convert it for 110-volt, 50-60-cycle a.c. operation. Field exciter (at right) for operating 6-volt speaker fields from 110-volt, 50-60 cycle a.c.



30 WATT



Convertible **AMPLIFIER** 6 VOLT D.C. 110 VOLT A.C. *Operation*

TECHNICAL CHARACTERISTICS

Peak Output 50 watts
 Max. output into 500-ohm line 30 watts
 Harmonic content (at 30 watts) 6%
 Response within 3.2 db. 50-10,000 c.p.s.
 Inputs Four; 2 high-gain, 2 low-gain
 Amplification (overall gain):

USING HIGH-GAIN CHANNELS
 at 5 megohms impedance 135.2 db
 at 150,000 ohms impedance* 120 db

USING LOW-GAIN CHANNELS
 at 500,000 ohms impedance 85.2 db
 at 150,000 ohms impedance* 80 db

Output impedance:
 .35/.6/1.35/2.4/6/8/15/50/250/500 ohms.
 Average drain 24 amperes at 6 volts
 *Highest impedance of devices now in use.

THE Lafayette model 266-A amplifier is the finest and most powerful six-volt amplifier available today. The usable power output of 30 watts represents the maximum obtainable in six-volt-operated units; in order to obtain greater output than that afforded by this amplifier, it would be necessary to use a gas-engine-driven generator to operate an a.c. amplifier efficiently.

The uses to which the amplifier can be put are many and varied. Although primarily designed for mobile sound-truck operation from a six-volt battery, it can be instantly converted for use on 110-volt, 50/60-cycle a.c. by simply connecting the a.c. power pack listed below. When used with suitable associated equipment (see system listed below), a high-power and high-quality system can be assembled. Suggested applications include installation in ballyhoo trucks (especially political speeches), auditoriums (110-volt a.c.), and many others.

5-STAGE HIGH-GAIN CIRCUIT

Eleven tubes are used in a powerful high-gain circuit. These include 2-6C6's, 4-76's, 1-6E6, and 4-79's. Output is 30 watts into a 500-ohm line, with 50 watts peak. Gain is ample for direct use of crystal or velocity mikes. Frequency response covers the entire audible range from 50 to 10,000 c.p.s. with only 3.2 db variation.

Four input channels, two high-gain and two low-gain, are provided. The high-gain channels are for mike input, the low-gain channels for phono pick-ups, electric guitars, etc. An electronic mixer permits mixing of two high-gain, two low-gain or one high-gain and one low-gain channels. A built-in dual-input fader control on each combination of a high- and low-gain channel permits fading of reproduction from a high- to a low-gain channel or vice versa. A tone control is also included to permit limiting of high-frequency response for bass emphasis.

COMPLETE CONVERTIBLE SYSTEM

A complete system using the above amplifier is available. It consists of the amplifier, four 6-volt Rola high-fidelity 12" dynamic speakers, four giant weatherproof trumpets and all tubes. For a.c. operation, the a.c. pack must be added, as well as a field exciter for the speakers.

Model 266-A—Lafayette 30-watt convertible amplifier, less tubes and screen cover. Dimensions: 10 1/2" x 17 1/4" x 10 1/2" high. Shpg. wt. 63 lbs. Code ADR08. **\$139.90**
 List Price

Model 266-DF—Metal screen cover for the above amplifier. Shpg. wt. 6 lbs. **\$3.95**
 List Price
 Kit of tubes: 2-6C6's, 4-76's. **\$11.24**
 1-6E6, 4-79's. List Price

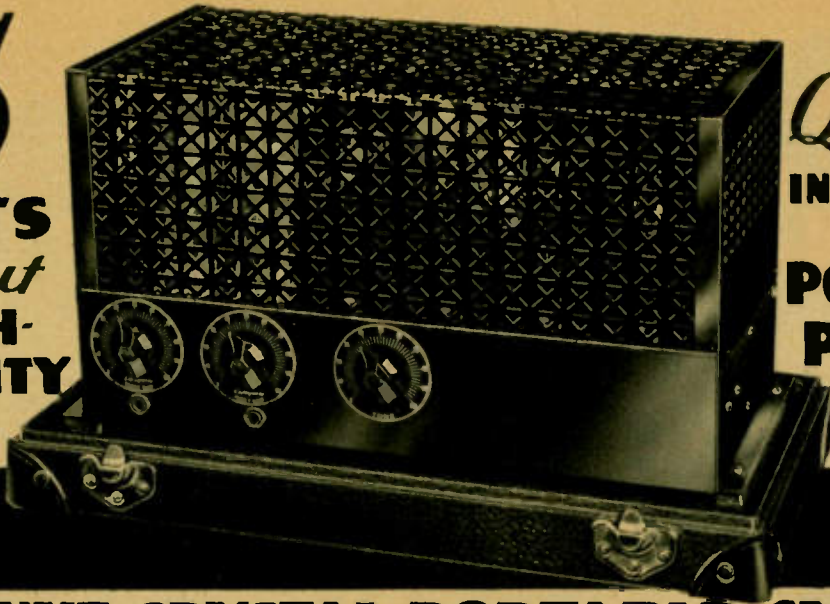
Model 1045-PP—Special a.c. power pack for operating the model 266-A amplifier on 110-volt, 50/60-cycle a.c. Size: 12" x 7 1/4" x 6 3/8". With 83 rectifier tube. Shpg. wt. 24 lbs. Code PLUTE. **\$25.00**
 List Price

System No. 549-P—Consists of model 266-A amplifier, complete with tubes, and 266DF metal screen, four (19244) Rola high-fidelity 12" 6-volt speakers, four Lafayette YY20065 47" trumpets. Mike equipment not included. Shpg. wt. 185 lbs. Code **\$381.70**
 SODRA, LIST PRICE

Suitable microphones and field exciter unit listed on page 20.



15
WATTS
Output
HIGH-
FIDELITY



A
Quality
INSTRUMENT
at a
POPULAR
PRICE!

De LUXE CRYSTAL PORTABLE SYSTEM

THE Lafayette DeLuxe 15-Watt Crystal Portable System comprises a high-gain, high-power and high-fidelity amplifier, providing a power output of 15 watts, used in conjunction with two 12" high-fidelity auditorium type speakers and a crystal microphone. It is ideally suited for use in dance halls, dining rooms, small theatres and similar installations. The complete system, including all accessories, is readily portable, being housed in two compact carrying cases correctly designed so that they are easy to carry. Representing as it does the ultimate in performance possible with crystal mikes, the system is ideal for use by orchestras, lecturers, as sales "boosters", etc.

POWERFUL FOUR-STAGE CIRCUIT

The powerful four-stage amplifier used with the system makes use of six tubes, including 2-53's, 1-57, 2-2A5's, and 1-83-V rectifier, giving a gain of 97 db at 150,000 ohms. Output is full 15 watts, with only 9% harmonic content. Hum level is -48 db below maximum output, or 1/60,000 of the total power output. The frequency response afforded covers the entire audible range, being essentially flat from 50 to 10,000 cycles per second.

One of the features contributing to the marked superiority of this amplifier over others of similar nature, is the inclusion in the circuit of a built-in, two-position electronic mixer. Two high-gain channels are provided, the mixer supplying a stage of pre-amplification for each channel, so that two crystal microphones can be used simultaneously. The reproduction from both mikes can be mixed together at will, or if desired, only one channel can be used at a time.

Other features include the use of a full range, continuously variable tone control permitting cut-off of high frequencies to suit individual acoustic conditions and minimizing feed-back troubles. The use of plug-in type connections simplifies setting up and taking down of equipment, and prevents any possibility of im-

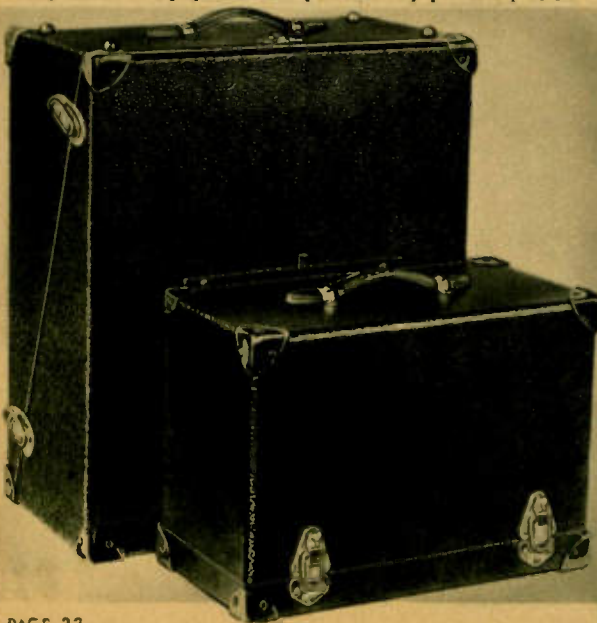
proper connections. All controls, tone and gain, have graduated dials with arrow pointer knobs. The amplifier is housed in a sturdy leatherette covered carrying case (as illustrated) 18" by 9 1/2" by 13" high, weighing 38 lbs.

Two powerful 12" high-fidelity auditorium type speakers are furnished with the system. They are fully excited and at maximum sensitivity at all times, insuring the utmost in wide range, high-fidelity reproduction. The use of 500-ohm transmission lines makes possible the placing of the speakers at any distance from the amplifier without appreciable loss in volume or quality. Each speaker is supplied with 50 feet of heavy-duty, rubber-covered cable. Speaker openings in the case are protected by crystalline black finished, steel screen grilles, and provided with external "roll-up" leatherette flaps which can be removed entirely.

MICROPHONE FITS IN SPEAKER CASE

One crystal microphone and floor stand combination is furnished with the system. (Another crystal mike can be added if desired; see pages 39 and 40 for suitable units.) The microphone is the well-known Piezo-Astatic crystal unit, model D-104(YM13363), providing excellent high-fidelity response. The floor stand is entirely chrome plated, and is adjustable from 37" to 67". Stand base is heavily weighted, and 9" in diameter. Twenty-five feet of special flexible rubber-covered cable is supplied with the mike. The speaker case has built-in compartments that firmly hold the microphone unit, floor stand (disassembled) and the cables. Case is leatherette covered and measures 20" by 11 1/2" by 23" high. Weight of case, fully equipped with speakers, mike, stand and cables, is 50 lbs.

The Lafayette DeLuxe 15-Watt Crystal Portable System is designed for use on 110 volts, 50-60 cycles a.c. Systems for use on 220 to 240 volts, 50-60 cycles a.c., can be supplied on special order at slight additional cost. Write for complete details.



Model 557-P - Lafayette DeLuxe 15-Watt Portable System, comprising amplifier, tubes, two 12" high-fidelity dynamic speakers, Piezo-Astatic crystal mike, floor stand and all cables, as described above. In two leatherette covered carrying cases. For operation on 110 volts, 50-60 cycles a.c. Shpg. wt. 110 lbs. Code SKIMA. **\$175.00**
List Price

Note: Pictures to left show speaker and amplifier cases ready to be carried. Pictures below show contents of speaker case and method of support.

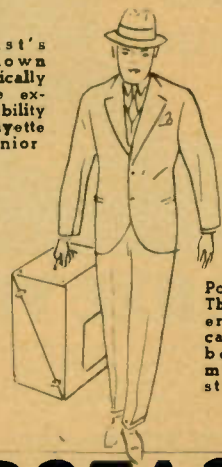




THE Lafayette 12-Watt Portable system includes all the necessary equipment to provide high-power, high-fidelity reproduction. The amplifier used with the system works in conjunction with an auditorium type 12" high-fidelity dynamic speaker, and a crystal microphone. With such high quality equipment, the reason for the wide range response is readily apparent. The entire audible range of frequencies is covered without appreciable discrimination.

The high-quality, "clean" power output of 12-watts makes the system suitable for installations in dance halls, dining rooms and small auditoriums where reserve power is necessary to override incidental room noises. Despite this power, however, complete control is had over the volume, and from a bare whisper to maximum output the quality of reproduction is equally fine.

The artist's sketch shown here graphically depicts the extreme portability of the Lafayette 12-watt Senior



Portable system. The single leatherette covered case can easily be carried by means of the sturdy handle.

12 WATT SENIOR PORTABLE

FOUR-STAGE HIGH QUALITY AMPLIFIER

The high quality amplifier used with the system incorporates four stages using six tubes as follows: 1-53 as mixer, 1-57 as voltage amplifier, 1 53 transformer coupled driver, 2-2A5's in a push-pull class. A prime out-put stage. A type 83-V rectifier supplies the necessary high voltages with excellent regulation. A 12-watt power output is realized, with harmonic content of only 5%. Hum level is -47 db below maximum output, or 1/50,000 of the power output. Power consumption 88-watts.

OVERALL GAIN OF 97 DB

One of the outstanding features of the amplifier is the high gain available, 97 db, which makes unnecessary the use of a pre-amplifier when a crystal microphone or other equally low level input device is used.

TWO HIGH-GAIN CHANNELS—BUILT-IN TWO-POSITION ELECTRONIC MIXER

The circuit is so designed that two high impedance, high-gain input channels are provided. This provision allows the simultaneous use of two microphones at one time. A two-position electronic mixer is also included, so that reproduction from two input devices can be mixed together or faded from one to the other at will. The controls for the two channels are absolutely noiseless in operation; they are knob operated from the front panel and provided with graduated dial plates.

OTHER CIRCUIT FEATURES

Some of the other noteworthy features included in the design of the amplifier are: a full range tone control that allows limitation of the high frequency response to suit the particular acoustical conditions encountered and to help eliminate feedback; a fused power line protects the amplifier components from overloads and subsequent failures due to surges in the power line; ease of control is provided by the plug-in type connections which save time during installations, and prevent any possibility of errors when system is hooked-up. All controls and connectors are so placed that they are instantly accessible.

HIGH-FIDELITY DYNAMIC

A special 12" high-fidelity a.c. dynamic speaker, having a built-in field supply using an 80 rectifier, is used with the above amplifier. It provides true high-fidelity response, and is supplied with a line matching transformer that permits placing of the speaker at any desired distance from the amplifier without loss in volume or quality of reproduction. Fifty feet of heavy duty rubber covered cable is furnished.

CRYSTAL MICROPHONE—FLOOR STAND

The microphone supplied with the senior portable system is the popular Piezo-Astatic crystal unit model D-104 (YM13363). This microphone features an exceptionally fine frequency response. Twenty-five feet of special rubber covered cable is furnished with the mike. A chromium plated floor stand, adjustable from 25 3/4" to 59 3/4" is also furnished.

SINGLE-UNIT CARRYING CASE

The entire Lafayette Senior Portable system is housed in a single leatherette covered carrying case 23" by 17 3/4" by 9" overall. The case opens into two equal compartments, one housing the amplifier, the other containing the speaker, mike, stand and cables. The speaker compartment has separate built-in housings that firmly contain the mike, stand and all accessories. Speaker opening is covered by a crystalline black steel grille and provided with an external "roll-up" flap of black leatherette. All hardware is heavily plated to be rust proof.

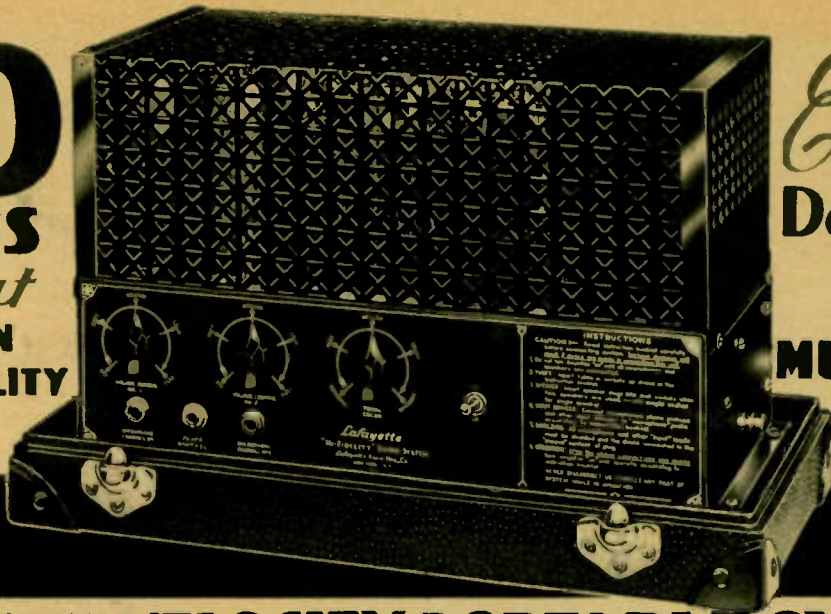
The Lafayette 12 Watt Senior Portable is designed for operation on 110 volts, 50-60 cycles a.c. Systems for use on 220 to 240 volts, 50-60 cycles a.c. can be supplied on special order at slightly higher prices. Write for details.

Model 573-P—Lafayette 12 Watt Senior Portable system, complete with all tubes, amplifier, speaker, microphone, floor stand and cables as described above. In single unit leatherette covered carrying case 23 x 17 3/4 x 9". For operation on 110 volts, 50-60 cycles a.c. Net weight 65 lbs. Shipping weight 105 lbs. Code SAVAT.

List Price **\$125.00**



20
WATTS
Output
HIGH GAIN
HIGH FIDELITY



Especially
Designed
for the
MUSICIAN

De LUXE VELOCITY PORTABLE SYSTEM

THE Lafayette DeLuxe Velocity Portable System is designed to obtain the utmost from velocity and sound-cell microphones, and, in conjunction with these excellent units, is capable of an unsurpassed quality of reproduction with power and sensitivity to satisfy the most critical.

A COMPLETE SYSTEM—NOTHING ELSE TO BUY

Here is a system that is complete to the smallest plug. Two attractive luggage cases house the amplifier complete with all tubes, two speakers complete with cables and plugs, microphone, a floor stand with cable and plug—the system is complete there is nothing else to add or buy. All power necessary for operation is obtained by simply plugging into any 110-volt, 50/60-cycle a.c. outlet.

USES A 20-WATT HIGH-FIDELITY AMPLIFIER

Its high-power, high-fidelity amplifier employs eight of the latest multi-purpose tubes, (3-42's, 2-75's, 1-6A6, 1-76 and an 83 rectifier), is mounted on a sturdy steel chassis and is equipped with a protective steel screen. It provides the unusually high-gain of 139.2 db (at 5-megohm input)—more than enough for maximum efficiency when using velocity or sound-cell microphones.

TWO HIGH-GAIN, HIGH-IMPEDANCE INPUTS

An **ELECTRONIC TWO-POSITION MIXER WITH PRE-AMPLIFIER FOR EACH POSITION** permits mixing and fading of the two high-gain inputs. These permit the simultaneous use of TWO low-level microphones (velocity, sound-cell, etc.). A phono jack, for use with phono pick-ups, electric guitars and other high-level devices, automatically opens one of the high-gain inputs and throws its gain control across the device plugged in, thus permitting the volume control of high-level units at the amplifier.

WIDE-RANGE TONE CONTROL offers high-frequency attenuation for bass emphasis and aids control of feed-back difficulties.

TWO POWERFUL AUDITORIUM-TYPE ELECTRO-DYNAMIC SPEAKERS with 12" cones assure faithful reproduction. Each speaker is equipped with a 50-ft. rubber-covered cable terminated with a rubber-covered plug. There are no loose-ended wires to wrap around binding posts—all connections are clean, rapid and positive because of the exclusive use of plug and socket connections. This system can be installed by anyone.

TWO CARRYING CASES HOUSE ENTIRE SYSTEM

The complete system is housed in two handsome, black fabric-covered luggage cases. Both are equipped with leather carrying handles, and are reinforced with metal corners. The amplifier case measures 9½ x 18 x 13" high; the speaker case, 20 x 11½ x 23" high. The speaker case also contains the microphone and microphone stand with its cable. The latter unit has a heavily weighted base, is extendable to 60" and is finished in beautiful chrome. With it is supplied 25 feet of high-quality cable.

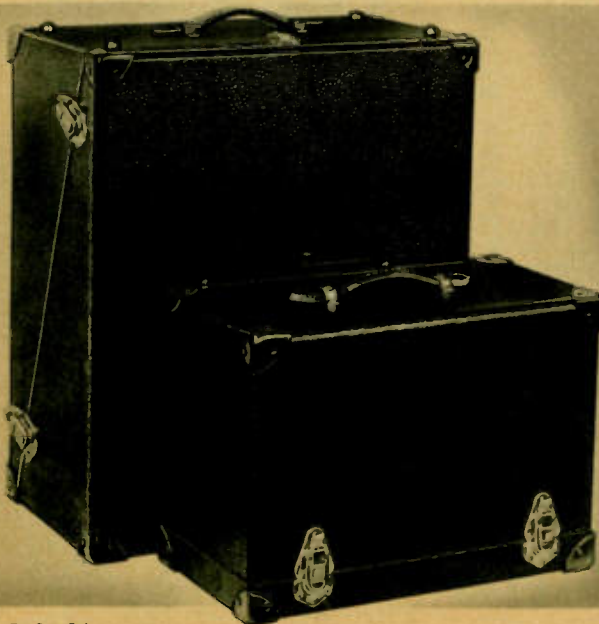
Model 521-P—Lafayette DeLuxe Velocity Portable System complete as described, with Lafayette velocity microphone and stand complete. For 110-volt, 50/60-cycle a.c. operation. Code, SGETE. Shpg. wt. 175 lbs.
\$222.00
List Price

Model 522-P—Lafayette DeLuxe Portable System as above, but with Brush B2S Sound Cell microphone.
Code, SAMAR. Shpg. wt. 175 lbs.
\$234.10
List Price

These systems are available for 220, 240 or 250-volt, 50/60-cycle a.c. operation on order, at slight additional cost.

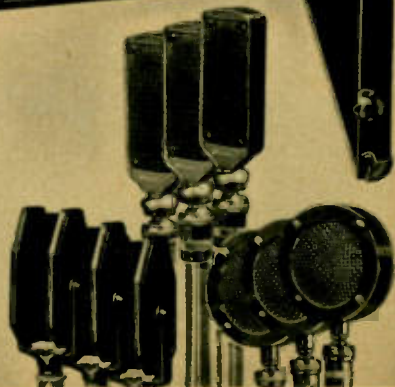
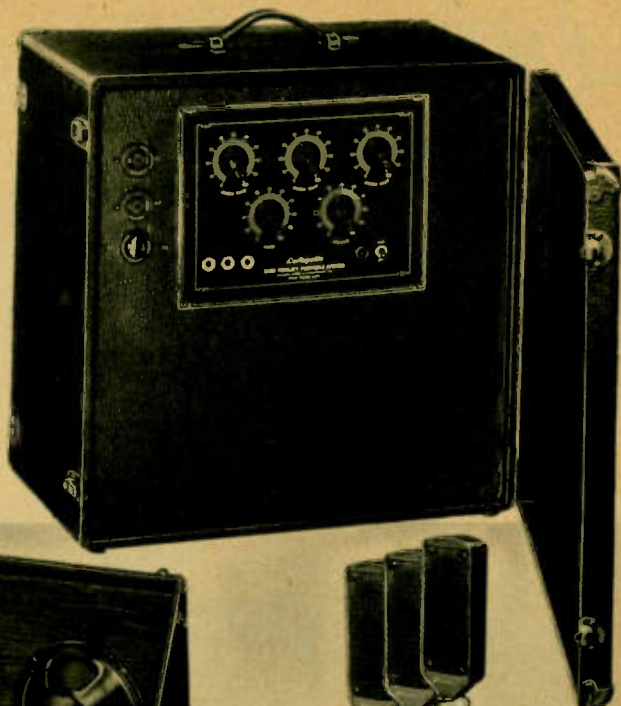
TECHNICAL SPECIFICATIONS

Output into 500-ohm line ... 20 watts
Harmonic content (at 20 w.) ... 9%
Hum level (below 20 w.) ... -46 db
Input Channels ... 2 high-gain*
Input impedance (each) 5 megohms
Amplification (overall gain):
At 5 megohms input ... 139.2 db
At 150,000-ohm† input ... 124 db
*Can be used as 1 high and 1 low.
†Maximum of present-day devices.



25 WATT DE LUXE PORTABLE SYSTEM

with
Studio Type
CONTROL PANEL



THE Lafayette model 591-PL 25-Watt DeLuxe Portable System is the foremost assembly of its type in the public-address field. It incorporates every modern development. Includes a three-position Electronic mixer with a pre-amplifier on each input channel, is completely portable, and operates from any 110-volt, 50/60-cycle a.c. outlet. The quality of the reception afforded by the system is exceptionally fine; both speech and music are reproduced with natural, life-like fidelity. Thus, this system is recommended for use wherever high quality is a requisite.

THREE INPUT CHANNELS FOR HIGH OR LOW-LEVEL DEVICES

Any, or all, of the three input channels can be used with a velocity, crystal or sound-cell microphone, a phono pick-up, or electric guitar. Regardless of the type of input on each of the three channels, the Electronic mixer will fade and mix all three simultaneously with noiseless and precision control.

INCORPORATES OVERALL VOLUME AND CONTINUOUSLY VARIABLE TONE CONTROLS

In addition, a master overall gain control provides further flexibility by controlling the resultant of three mixed inputs. A wide-range tone control permits variation of high-frequency response to any desired degree, and serves to minimize feedback.

UNUSUALLY HIGH GAIN OF 139.2 DB

The overall gain provided for each input channel is more than enough to operate velocity, crystal and sound-cell microphones at maximum efficiency without the need for additional apparatus. With a gain of 139.2 db (at 5-megohm input impedance), sensitivity is greater than ample. USABLE output of the amplifier is fully 25 watts actually working into a 500-ohm load.

TWO HIGH-FIDELITY AUDITORIUM SPEAKERS

The speakers furnished with the system are of the Rola high-fidelity auditorium type and consequently assure the finest quality of reproduction. Each speaker is equipped with 50 feet of rubber-covered cable terminated with a 6-prong plug. The carrying case, in which both speakers are mounted, is of the split type, opening so as to provide an efficient baffle for each speaker. A metal grille protects each speaker cone from damage; when not in use the grille is covered by a snap-on leatherette cover.

ENTIRE SYSTEM COMPLETELY PORTABLE

This DeLuxe System now makes it possible to offer permanent-system quality of reproduction within a few moments at any auditorium, dance-hall, restaurant or outdoor gathering. The entire assembly is contained in two attractively finished, black fabricoid-covered carrying cases. The case housing the amplifier and control panel measures 19½" by 18½" by 19". The speaker case has the same dimensions. All corners are reinforced with metal ends, and all locks nickel-plated. Hand grips are of solid

leather, and overall construction is such as to withstand the wear and tear of day-after-day transportation in the field.

INSTALLED AND OPERATED BY ANYONE

All connections are of the plug-in type, which permit quick and simple "setting up" and "taking down" of the system. Technical knowledge is unnecessary. Merely plug line cord into any 110-volt, 50/60-cycle a.c. outlet, set out speakers to obtain best acoustical coverage, plug in speakers and microphones, and the system is ready to operate. Operation is only a matter of adjusting controls for the desired effects, which are easily obtained. The speakers can be placed at any desired distance from the amplifier without loss in volume or quality (due to the use of a 500 ohm transmission line); additional speaker cable can be added.

IDEAL FOR ORCHESTRA OR STAGE

This system's ability to handle simultaneously three velocity or crystal microphones, and its portability, make it the ideal unit for the show or orchestra on the road. Its professional quality and flexibility, especially, are appreciated by director and artist alike who, more than anyone else, insist upon the ultimate in faithfulness of reproduction and absolute dependability under all conditions.

REQUIRES ONLY TUBES AND MICROPHONE

With the exception of microphones and tubes, the system is furnished complete—there is nothing else to add or buy. All plugs, sockets, cables, etc., are included. Microphones are not sold as part of the system because of the expressed preference of many purchasers to choose their own input devices according to their personal tastes. However, two suggested microphone systems are listed below, with complete listings of every modern microphone on pages 39 and 40 of this catalog.

Model 591-PL—Lafayette 25-Watt DeLuxe Portable System with speakers, cables and plugs, but less tubes and microphones. For 110 volts, 50/60-cycle a.c. Code SLOEE. Shpg. wt. **\$197.00** 175 lbs. List Price Available for 220, 240 or 250-volt 50/60-cycle a.c. operation on order at a slight additional cost. Kit of tubes: 6-2A6's, 4-2A3's, 1-83, 1-59, 1-56. Shpg. wt. 5 lbs. List Price **\$13.17**

Microphone Combination No. 601-P—Consists of one Amperite model RBH velocity microphone complete with one No. 13528 chrome-finished floor stand and 25 feet of rubber-covered cable with terminal plug. Code SWETA. Shpg. wt. 15 lbs. **\$56.20** List Price

Microphone Combination No. 602-P—Similar to above microphone combination, but furnished with one Brush model B2S sound cell crystal mike. Code SWOMA. Shpg. wt. 14 lbs. **\$60.70** List Price See pages 39, 40 and 41 for complete listing of microphones, stands and accessories.

Lafayette

DE LUXE

HIGH-FIDELITY

PA. TUNER

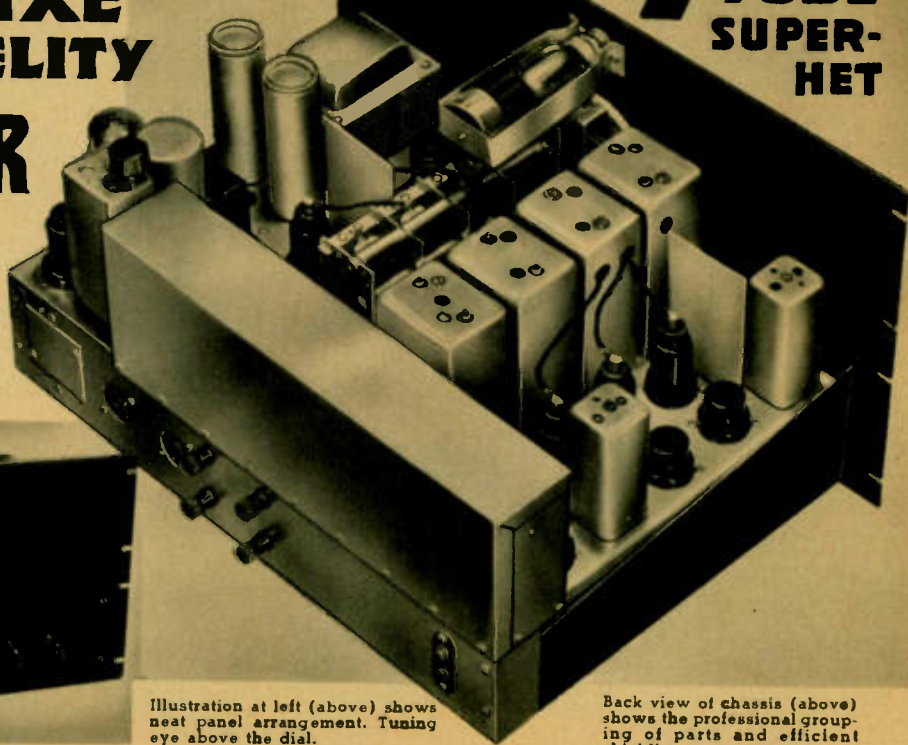
- Latest Metal Tubes
- Low-Pass Audio Filter
- Anti-Static Circuit
- Variable I. F. Coils
- Cathode Ray Tuning
- All-Wave — 5-Bands



Illustration at left (above) shows neat panel arrangement. Tuning eye above the dial.

14-TUBE

SUPER-HET



Back view of chassis (above) shows the professional grouping of parts and efficient shielding.

IN designing the DeLuxe High-Fidelity Tuner illustrated above, price considerations were made subordinate to those of sensitivity, selectivity, high quality and flexibility. For this reason, the finished product is offered, without fear of contradiction, as the finest tuner on the market today. Every requirement for truly high-fidelity characteristics has been successfully met by utilizing every circuit refinement made available by the wizardry of modern radio engineering. These include: VARIABLE sensitivity and selectivity to suit every requirement; VARIABLE low-pass audio filter circuit; bass compensation; all-wave coverage; cathode-ray tuning; amplified a.v.c.; anti-static circuits; individually shielded circuit; beat oscillator; etc., etc.

ALL-WAVE COVERAGE—6.6 TO 2000 METERS

The entire spectrum from 6.6 meters to the long-wave European broadcast limit of 2000 meters is covered in five ranges. The bands are separated as follows: from 6.6 to 15.5 meters (19-45 mc.); from 15.5 to 55 meters (5.4-19 mc.); from 55 to 175 meters (1.75-5.4 mc.); from 175 to 580 meters (520-1700 kc.); from 750 to 2000 meters (150-400 kc.). Thus amateurs in both Europe and America can be picked up, as well as European short- and long-wave broadcasts, police calls, television and airplane signals, and, of course, the standard American broadcasts. Individual coils are used on each band; switching is controlled from front of panel.

USES THE NEW METAL TUBES—SUPERHET CIRCUIT

Fourteen tubes are used in the powerful superhet circuit. Of this total, all but the rectifier and the electron-eye tuning indicator are of the latest all-metal construction. The tube complement consists of: 1-6K7 r.f. amplifier on all bands; 1-6A8 converter; 1-6C5 oscillator; 1-6E7 first i.f. amplifier; 1-6L7 second i.f. amplifier; 1-6H6 detector and rectifier for the tuning indicator; 1-6F6 triode first audio amplifier; 1-6C5 beat frequency oscillator; 1-6E7 and 1-6H6 in an amplified a.v.c. system; 1-6J7 and 1-6H6 in a special anti-static circuit; 1-6E5 electron-ray tuning indicator; 1-80 rectifier tube. The circuit is original in design, and patents have been recently granted for it.

HIGH-FIDELITY RESPONSE—VARIABLE SELECTIVITY

Due to special circuit design, the tuner has a remarkable frequency range of from 20 to 16,000 c.p.s. This range is covered with a variation of less than 3 db at the high end, and is designed for reception of strong interference-free signals usually picked-up during daytime broadcasts. Obviously, however, this high-fidelity band cannot be used for the reception of weak short-wave signals, or for reception on crowded channels where interference is encountered. For this reason, provisions have been included for varying the selectivity by means of variable coupling i.f. transformers and a special low-pass audio filter circuit. Five selectivity ranges are provided as follows: range A is the high-fidelity range from 20 to 16,000 c.p.s. with an r.f. band width of 40 kc.; range B, for normal reception, covers from 20 to 7800 c.p.s., with an 18-kc. band width; range C, for night operating conditions, covers from 20 to 5500 c.p.s., with a 14-kc. band width; range D, also for night-time reception of comparatively weak signals, covers from 20 to 4000 c.p.s., with a 12-kc. band width;

range E, for reception of weak code and phone signals, covers from 20 to 2000 c.p.s. with a 6-kc. band width. On band E, the selectivity, 10-kc. off resonance, is over 1000 times.

VARIABLE I. F. TRANSFORMERS—AUDIO FILTER

The band width of the i.f. transformers is varied by changing the coupling between primary and secondary; this is accomplished without changing the resonant frequency. To secure exactly the proper motion for the movable coils, each transformer has its own cam driving the moving coil. The three cams are mounted on the fidelity-selectivity control shaft that is operated from the front panel. Working in conjunction with the variable i.f.'s is a special low pass filter circuit comprised of 4 sections (eleven elements). The four sections are thrown into the circuit at the same time the coupling of the i.f. transformers is varied (no filter on the high-fidelity 20-16000 c.p.s. range) and cut-off sharply at the maximum frequency limit as described for bands B to E above.

SPECIAL CAM SWITCHES EMPLOYED

For band changing and varying of selectivity, specially designed switches are used. They operate on the knife contact principle, the most efficient known. Contacts are silver plated, positive in action and inherently free from noise. Special shielding is employed to eliminate inter-circuit capacity effects or stray field pick-up, thus assuring absolute stability of operation.

ADDITIONAL IMPORTANT CIRCUIT FEATURES

Other important features include: a special anti-static circuit that eliminates man-made interference, spark plug noises, etc.; beat frequency oscillator for reception of weak c.w. signals; controllable bass compensation—bass notes are faithfully reproduced at any setting of the volume control; amplified a.v.c. circuit acts entirely independent of the detector tube; switch to remove a.v.c. load for high-fidelity reception; full-vision illuminated airplane dial; air trimmers on all tuned circuits; 6E5 cathode ray tuning eye permits exact visual tuning. All controls are governed directly by knobs on the front panel; full instructions are furnished.

Output impedances provided are 500 and 2000 ohms. Output level on 2000-ohm line is plus 12 db (14 volts); on 500-ohm line level is 0 db (1.7 volts). Built-in power supply operates on 120-220-250 volts, 50-60 cycles a.c. All controls operated by means of arrow pointer knobs on the front panel; all controls plainly marked. The steel front panel is finished in instrument black, and is designed for standard 19" rack panel mounting. Chassis is plated steel. Overall dimensions of chassis: 16 1/2" wide, 3" high and 11 1/2" deep. A suitable metal cabinet is available—see listing below. Full instructions included with each tuner.

Model 1008-A—Lafayette DeLuxe High-Fidelity P.A. Tuner. complete with all tubes. Built-in power supply for 110/275 volts. 50-60 cycles a.c. Panel for standard 19" rack \$190.00 mounting. Shpg. wt. 25 lbs. Code NULAE. List Price

YY22003—Special metal cabinet for above. Finished in crystallized black lacquer. Has door in top, with heavy latch, for quick tube changes and inspections. 10 1/2" high. Shpg. wt. 21 lbs. List Price. \$10.90

NEW!

Lafayette P.A. TUNERS

with
CATHODE-
RAY EYE



Wide- RANGE T.R.F. MODEL

THE Lafayette Wide-Range T.R.F. Tuner has been designed to meet the demand for a comparatively low-priced wide-band unit capable of providing sensitivity and selectivity characteristics.

Seven tubes are used, all but the tuning indicator being the latest all-metal types. Tubes are used as follows: 3-6E7's as r.f. amplifiers, 1-6H6 as diode detector and a.v.c. tube, 1-6C5 as audio amplifier, 1-5Z4 rectifier and 1-6E5 cathode-ray tuning indicator. The range of the tuner is from 550 to 1600 kc. (187.5 to 545 meters). Power supply is built in; for 110-volt, 50/60-cycle a.c. operation.

Selectivity is rated at 1000 times 97 kc. wide—this is unusual in a tuner of this type, and is indicative of the superlative design. Stations can be easily separated over the full range of the dial. Sensitivity without side-band cutting is in the order of 15 microvolts absolute as compared with the average 200 to 250!

The a.v.c. circuit is comparable to that of similar circuits in superhet tuners, and provides a full "sawing" on the 6E5 cathode-ray tuning indicator. A sensitivity control on the front panel enables the operator to cut out the a.v.c. action in order to obtain maximum fidelity with minimum side-band noise. A manual volume control is provided, and is governed from the front panel.

Two output impedances are provided. One is 50,000 ohms, the other 500 ohms. The output level is sufficiently high for use in conjunction with amplifiers having as little as 50 db gain.

Model 1004-TP—Lafayette Wide-Range T.R.F. Tuner with panel for standard 19" rack mounting. Less tubes. For 110-volt, 50/60-cycle a.c. Dimensions 8 $\frac{3}{4}$ "x10"x19". Shpg. wt. 32 lbs. **\$54.90**
Code NALNO. List Price

Model 1005-TP—Lafayette Wide-Range T.R.F. Tuner chassis only, for cabinet mounting. Less tubes. For 110-volt, 50/60-cycle a.c. Shpg. wt. 29 lbs. Code NERUS. **\$49.90**
List Price

Kit of tubes for above: 3-6E7's, 1-6H6, 1-6C5, 1-5Z4 and 1-6E5. List Price **\$10.10**

Wide- RANGE SUPERHET

THE Lafayette Wide-Range Superhet Tuner affords extreme selectivity and sensitivity. It incorporates many modern features that make it particularly well suited for all P.A. work.

The tube complement, comprising seven tubes, includes five of the latest all-metal types. Tubes are used as follows: 1-6E7 as a stage of r.f. amplification on all bands; 1-6H7 as first detector; 1-6H7 as i.f. amplifier; 1-6H6 as diode second detector and a.v.c. tube; 1-6C5 as audio amplifier; 1-80 rectifier and 1-6E5 cathode-ray tuning indicator tube. The power supply is built in.

The tuning range covers from 16.4 to 560 meters in three overlapping bands as follows: from 16.4 to 52.2 meters (5.75-18.3 mc.); from 51.8 to 175 meters (1.715-5.8 mc.); from 173 to 560 meters (535-1730 kc.). Thus, American and foreign amateurs, police calls, and the standard American broadcasts can be received. Wide-range reception is made possible by means of a special high-fidelity control that varies the i.f. band width. When the band width is broadened, the higher frequencies are passed. Sensitivity on the 173-560 meter band is rated at 0.5 microvolt absolute; on the 51.8-175 meter band 1.0 microvolt absolute; on the 16.4-52.2 meter band 2.0 microvolts absolute. Selectivity rated 28-kc. broad at 1000 times signal (sharp). Other features include: manual volume control, cathode-ray eye tuning, efficient band change switch, full-illumination airplane dial and rigid steel bracket mounting.

Output impedances 500 and 50,000 ohms. Can be used with any amplifier having a gain of 50 db or more.

Model 1006-TP—Lafayette Wide-Range Superhet Tuner with panel for standard 19" rack mounting. Less tubes. For 110-volt, 50/60-cycle a.c. Dimensions: 13 $\frac{1}{2}$ "x10 $\frac{1}{2}$ "x10". Shpg. **\$84.00**
wt. 27 lbs. Code NINAS. List Price

Model 1007-TP—Lafayette Wide-Range Superhet Tuner chassis only, less tubes. For cabinet mounting. Shpg. wt. 23 **\$79.00**
lbs. Code NONBA. List Price

Kit of tubes: 1-6H6, 3-6E7's, 1-6C5, 1-6E5 and 1-80. List Price **\$9.09**



Lafayette ELECTRIC PORTABLES

**Single-Speed
78 R.P.M. with
Magnetic Pick-Up**

A HIGH-QUALITY portable record player at an unusually low price. Makes use of a single speed 78 r.p.m. electric motor provided with a 10"

turntable. Motor is silent in operation, and its speed remains constant at any setting. The pick-up employed is a wide-range Audak magnetic type, and is correctly balanced so that there is a minimum of record wear. Response of pick-up covers the entire audible range. Volume control is built in, and provided with a graduated dial. Speed regulator available on top of panel, controlled by a knob. The assembly is housed in a sturdy leatherette-covered carrying case having a strong handle at the top. All hardware is heavily plated. Front clasps provided with locks; two keys furnished. Case dimensions: 15 $\frac{1}{2}$ " wide, 13 $\frac{1}{2}$ " deep and 7 $\frac{1}{2}$ " high. Six feet of flexible rubber-covered cable and attachment plug (approved by Underwriters' Laboratories) included. For operation on 110-volt, 50/60-cycle a.c. only. Complete, ready to operate. Shpg. wt. 25 lbs. **\$27.50**
YY22049—List Price

**Two-Speed
78 & 33 $\frac{1}{3}$ R.P.M.
Crystal Pick-Up**

THE Lafayette Two-Speed Electric Portable record player makes use of a Green Flyer governor-controlled motor provided with a 12" turntable.

A high-fidelity Piezo-electric crystal pick-up insures excellent frequency response. Pick-up is extremely lightweight and requires no counterbalance when used with 33 $\frac{1}{3}$ r.p.m. recordings. Especially well suited for playing back instantaneous recordings—acetate, aluminum, etc. 78 to 33 $\frac{1}{3}$ r.p.m. speed shift lever mounted on panel. A noiseless volume control, operated from a knob on the panel, is built in. The entire assembly is housed in a Fabricoid-covered carrying case measuring 17 $\frac{1}{2}$ " wide, 13 $\frac{1}{2}$ " deep and 8" high. Strong carrying handle on top. All hardware heavily plated; rear hinge is full length piano type. Front clasps have locks; two keys furnished. With approved line cord and plug. For 110-volt, 50/60-cycle a.c. Shpg. wt. 25 lbs. **\$45.50**
YY22013—List Price
—Same as above, but with 6-volt d.c. motor. **\$55.50**
YY22057—List Price



Lafayette ELECTRONIC MIXERS

Available With or Without Pre-Amplification

Mixes, Fades and Pre-Amplifies Three Input Channels—Gain 50 Db

The electronic mixer is the finest method yet devised for the simultaneous mixing and fading of several input channels, and under Lafayette development, has attained an unparalleled high efficiency.

Modernizes Old Amplifiers

Owners of old, low-gain (up to 70 db) P.A. systems can now obtain all the advantages of the new low-level microphones such as the velocity and sound cell units. The addition of the Lafayette Electronic Mixer and Pre-Amplifier not only permits the use of these high-fidelity microphones, but adds a modern studio type mixer, fader and tone control for three input channels to any amplifier. Each channel is equipped with a separate gain control and a pre-amplifier which offers an overall gain of 50 db. In addition, a master gain control is provided for increased flexibility.

Frequency response is exceptional—40 to 10,000 cycles within plus or minus 2 db. Mixing is accomplished after the pre-amplifier stage, thus providing absolutely noiseless control.

Available for 2½ or 6-Volt Tubes

Two models are available in two mounting forms. A 6-volt model using 6-2A6's and a 2½-volt model using 6-75's can be had mounted either in a steel cabinet measuring 10x7x5½" (illustrated at right) or on a standard 19x8¾" rack-panel shown below. Power for either of these units can be obtained from the amplifier, a separate power supply or from batteries. A power supply suitable for the 6-volt model only is listed below. The plate supply can be any value between 100 and 400 volts with consequent variation in gain. Input impedance is 5 megohms; the output impedance will match the grid of the input tube.



All Models Complete with Tubes
Electronic Mixer Only, In Case
Model 200-A Code AMNAR. 2½-volt model.

Model 201-A—Code AMISE. 6-volt model. Shpg. wt. 10 lbs. **\$26.90**
List Price, Either Model.

Electronic Mixer on Rack-Panel
Model 202-A Code AYRIA. 2½-volt model.

Model 203-A—Code AYPAN. 6-volt model. Shpg. wt. 21 lbs. **\$31.90**
List Price, Either Model

Electronic Mixer and Pre-Amplifier Mounted in Steel Case
Model 204-A—Code AYTON. 2½-volt model.

Model 205-A—Code AYSEM. 6-volt model. Shpg. wt. 11 lbs. **\$46.25**
List Price, Either Model

Electronic Mixer and Pre-Amplifier Mounted on Rack-Panel
Model 206-A—Code AYLIS. 2½-volt model.

Model 207-A—Code AYMAT. 6-volt model. Shpg. wt. 22 lbs. **\$51.25**
List Price, Either Model

A power supply suitable for any of the 6-volt units listed above is described below.



Will Modernize Any Amplifier Having a Gain of Up to 95 Db, and Permit Use of Velocity and Crystal Microphones With Full Efficiency

Three-Channel Input Electronic Mixer Without Pre-Amplifier

This electronic mixer is similar to the model described above except that it does not include pre-amplification. However, unlike most mixers IT PROVIDES A GAIN OF 20 DB and not a loss.

It incorporates a separate gain control for each of the three input channels, overall tone control, master volume control and can be used with any amplifier having a gain of up to 95 db.

It is available for either 2½ or 6-volt operation, in steel case or rack-panel mounting. The 6-volt model uses three 6C6's, the 2½-volt unit, three 57's. As in the pre-amplifier model the steel case measures 10x7x5½". The rack-panel is of the standard 19" type, 8¾" high.

The control panel for all units is etched instrument black and mounts a ruby-light indicator and power switch. Input impedance is 5,000,000-ohms; output will match grid of input tube.

Lafayette

New High-Gain Pre-Amplifiers and Matched Power Supplies

This pre-amplifier is designed particularly for use with crystal, sound cell, and velocity microphones and other low-level input devices when used with amplifier having a gain of over 60 db. It is the most unusual high-gain, a.c.-operated unit ever developed and incorporates features that are exclusive Lafayette developments.

CHASSIS MOUNTED ON SPONGE RUBBER

The entire chassis of the unit is mounted on sponge rubber, thus offering complete freedom from feedback set up by mechanical vibrations of any nature.

A rigid steel screen on the power supply protects components and tube.

An overall gain of 56 db is obtained from a highly efficient circuit which employs two type 6C6 tubes. Output level is plus 5 db. The input impedance is 5 megohms and the output will match the grid of the input tube of any standard amplifier.

Special input and output transformers are listed below for use with this pre-amplifier. The high-fidelity units are suited for the finest installations and have a frequency response of 30 to 17,000 cycles within 3 db. The P.A. units are excellent for average work and have a response of 70 to 8000 cycles.

Two models are available; one is mounted in a heavy steel case measuring 10¼x7¼x5½". The other is mounted on a standard 19x8¾" rack-panel. Each model is equipped a volume control and a socket for power supply connections. Finished in rubber black.



Model 224-A—Lafayette Pre-Amplifier, less tubes, power supply and transformers. In steel case 10¼x7¼x5½". Code, AMPUL. Shpg. wt. 20 lbs.

List Price **\$33.50**
Model 226-A—Lafayette Pre-Amplifier, less tubes, power supply and transformers. Mounted on standard 19x8¾" rack panel. Code, ASCOV. Shpg. wt. 30 lbs.

List Price **\$38.50**
Model 1046-PP—Lafayette Power Supply, less tube. With protective screen. 8¼x6¼x6". For 110 volts, 50/60 cycles a.c. Code, PLUMA.

List Price **\$25.90**
Model 1047-PP—Lafayette Power Supply as above, but mounted on standard 19x8¾" rack-panel. Code, PLEBO.

Shpg. wt. 27 lbs. List Price **\$30.90**

Input and Output Transformers High-Fidelity Models

Input—Primary will match 500/333/250/200/125 or 50-ohm line. Shpg. wt. 6 lbs.

YDS486 List Price **\$15.00**

Output—From plate of tube to 500/333/250/200/125 or 50-ohm line. Shpg. wt. 6 lbs.

YE5427—List Price **\$15.00**

Special Public Address Units

Input—Primary will match 500/250 or 50-ohm line. Shpg. wt. 3 lbs.

YE5663—List Price **\$4.80**

Output—From plate of tube to 500/250 or 50-ohm line. Shpg. wt. 3 lbs.

YE5664—List Price **\$4.80**



ALL PURPOSE CARRYING CASES

Portable Case for PACKARD Record Changer



Model K Case

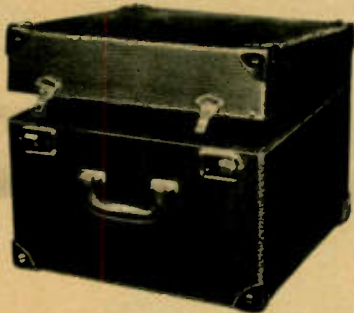
Designed to house the Packard automatic record changer. Strong wood construction, with overall covering of black leatherette. Has sturdy leather-covered carrying handle. Cover hinge of the full length, piano type. Two clasps hold top and base firmly together. All hardware brass plated. Cover compartment has felt liner that clamps at an angle in the case to prevent damage to the records as they are "kicked-off" by the automatic record changer. Two sizes available (for standard Model K, and large Model L record changers).

YS17766 Overall dimensions: 12 $\frac{3}{4}$ " wide, 12 $\frac{3}{4}$ " deep, 8" high. Inside dimensions: 12 $\frac{1}{8}$ " wide, 12 $\frac{1}{8}$ " deep, 7 $\frac{1}{8}$ " high. Shpg. wt. 11 lbs. (For Model K)
List Price \$8.90

Model L Case

YS17767 Large case. Overall dimensions: 14 $\frac{3}{4}$ " wide, 15 $\frac{3}{4}$ " deep, 8 $\frac{3}{4}$ " high. Inside dimensions: 14" wide, 15" deep, 7 $\frac{3}{4}$ " high. Shpg. wt. 15 lbs.
List Price \$9.50

CAPEHART Carrying Case



Designed to house Capehart record changer; can be used with other equipment. Black leatherette covered with brass plated hardware. Front clasps have locks, two keys furnished. Piano type cover hinge. Overall size 15 $\frac{1}{4}$ " x 15 $\frac{1}{4}$ " x 12 $\frac{3}{4}$ ". Shpg. wt. 14 lbs. **\$21.90**
YS17752 List Price

Portable Phono Case

Black leatherette covered. Has nickel-plated hardware. Front clasps have locks. Two keys furnished. Overall size 17" wide, 13" deep, 8" high. Phono motor panel, leatherette covered, has cut-out for Green Flyer motor. Piano hinge on cover. Shpg. wt. 11 lbs.
YY22055 List Price



\$11.00

Lafayette DeLuxe Port- able "Speaker-Mike" Case



A deluxe split case designed to house, in addition to two standard dynamic speakers, a complete microphone and floor stand assembly and necessary cable. The entire case is covered with black leatherette and provided with a sturdy leather carrying handle on top. Case opens into two equal halves, both provided with 9 $\frac{1}{2}$ " cone openings protected by steel screen grilles. Leatherette "roll-up" flaps cover and protect the grilles. One half of the case is equipped with two sets of wooden holders for cable; the other half fitted with one set of cable holders, a felt-lined case for a microphone, a floor stand base holder and a holder for the extension stand. All hardware heavily plated. Case is provided with rubber "bumpers" and has leather corner protectors. Overall size 23" high, 20" wide, 11 $\frac{1}{2}$ " deep. Will house speakers up to 12 $\frac{1}{2}$ " diameter. Ideal for all portable p.a. systems where power amplifier is carried in a separate case.

Shipping weight 22 lbs.
YY22054 (Case only) **\$23.90**
List Price

CARRYING CASES FOR AMPLIFIERS & SPEAKERS

Tuner or Amplifier Case

Case A Illustrated at upper left. This case is designed to house all types of equipment such as mixers, tuner-amplifiers, remote control equipment, etc. Entire case is covered with black leatherette and provided with a strong carrying handle at the top. Doors at front and back. Includes a front panel covered with black leatherette for mounting switches, controls, etc. All hardware nickel plated. Overall dimensions 20" high, 20" wide and 13 $\frac{1}{4}$ " deep. Shipping weight 25 lbs.
YY22050 List Price **\$19.90**

Power Amplifier Case

Case B Illustrated at lower left. Designed mainly for carrying power amplifiers; can be used with many other types of equipment. Entire case covered in black leatherette. Divided into base and cover. Sides strongly reinforced. Nickel plated hardware. Sturdy carrying handle (leather) on top. Equipment fastens to base, as shown in illustration. Inside dimensions 10 $\frac{1}{2}$ " high, 17" wide and 8 $\frac{3}{4}$ " deep; overall dimensions 12 $\frac{1}{2}$ " high, 18" wide and 9 $\frac{1}{4}$ " deep. Shpg. wt. 18 lbs. **\$13.90**
YY22051 List Price

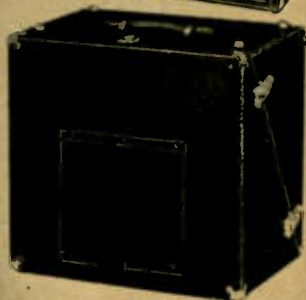
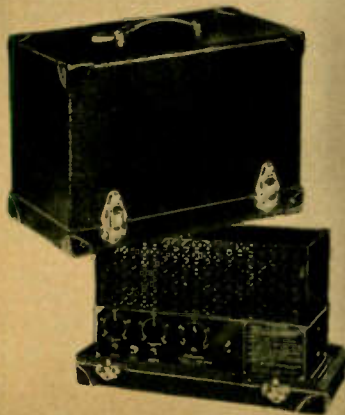
Case illustrated at the right is available in two different types—C and D. Case C illustrated at top; Case D at bottom.

Speaker—Amplifier Case

Case C—Split case designed to house a speaker and an amplifier as shown. Sturdy construction with re-enforced corners. Overall covering of black leatherette. Nickel plated hardware, metal corner protectors. Case opens into two equal sections. Speaker section has 9 $\frac{1}{2}$ " opening, covered by a steel screen grille and provided with a weatherproof "roll-up" flap. Blocks for holding cable also provided. Overall dimensions 21" high, 20" wide and 13 $\frac{1}{4}$ " deep. Shipping weight 23 lbs. **\$21.90**
YY22052 List Price

Dual Speaker Case

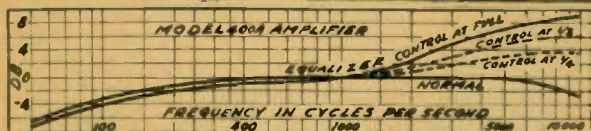
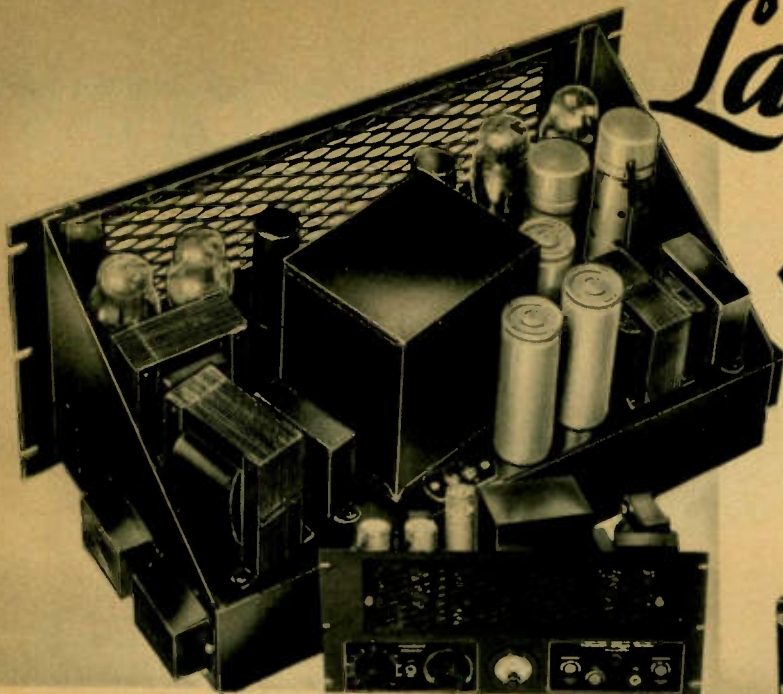
Case D—Split case designed to house two dynamic speakers. Will take speakers up to 12 $\frac{1}{2}$ " diameter. Both sections have 9 $\frac{1}{2}$ " speaker openings protected by steel screen grilles. Weatherproof "roll-up" flaps provided to protect both openings. Entire case covered with black leatherette and provided with a sturdy carrying handle. All hardware, including metal corner pieces, heavily plated. Overall dimensions 21" high, 20" wide and 13 $\frac{1}{4}$ " deep. Shipping weight 23 lbs. **\$21.90**
YY22053 List Price



Lafayette

40 WATT

- ✓ For Theatres Up to Approximately 3,000 Seats
- ✓ Extremely Compact
- ✓ Class "AB" Output
- ✓ New Beam Power Tubes
- ✓ Wall Mounting Cabinets



DESIGNED specifically for theatre use, the Lafayette model 400-A amplifier incorporates every feature required for modern high-fidelity sound-on-film reproduction. It provides more power than the old type 6-foot rack installations, yet is compact enough to mount between the projectors, reducing wiring and installation costs. There is sufficient volume, when using high-fidelity, for theatres with up to 3,000 seats—40 watts with only 5% harmonic content (60 watts peak power). Every necessary feature for convenient, trouble-free operation has been provided—ALL controls are easily accessible.

AUDIO EQUALIZER CIRCUIT—NEW BEAM POWER TUBES

The equalizer circuit used in the Lafayette model 400-A amplifier was developed especially for theatre work, and is used exclusively in Lafayette equipment. The curves shown above graphically illustrate the tone response that can be obtained at various equalizer settings, to compensate for acoustic conditions and for recording or printing defects. The equalizer is governed by a full-grip knob on the front panel. Eight tubes are used in an ultra-efficient, modified class "A" circuit as follows: 1-6C6 voltage amplifier, 1-6C6 electronic equalizer, 1-76 voltage amplifier, 1-42 triode driver, 2-6L6 beam power tubes in p.p. class "AB" output stage (first theatre amplifier available using these new and efficient tubes), 1-83 high-voltage rectifier, and 1-82 bias rectifier. Tubes can be exposed for inspection or replacement by simply removing the screen on the front panel.

2 PHOTO-CELL INPUTS—INDIVIDUAL CONTROLS

Two photo-electric inputs are provided, for use with two projectors. Voltage to the cells is individually controlled. Accurate voltage measurement is provided by a precision-type voltmeter (1,000 ohms per volt) mounted directly on the front panel. A pilot light on the panel indicates which cell is in use.

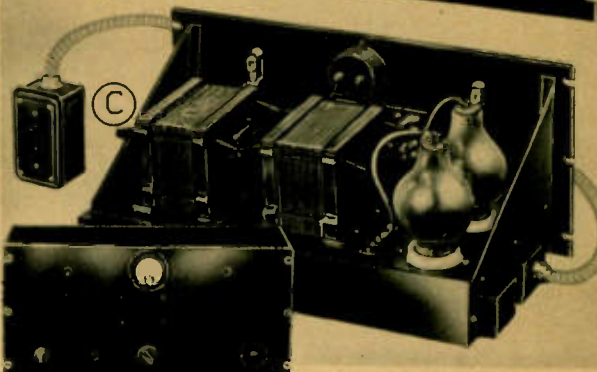
MICROPHONE INPUT CHANNEL INCLUDED

A microphone input channel is included, affording ample gain for direct use of crystal, sound-cell or close-talking velocity microphones. Gain through this channel, available at a jack on the front panel, is 105 db. Ideal for stage announcements. When mike circuit is in use, the photo-cell circuits are opened.

Tubes, line fuse, easily accessible from front by removing screen cover. This feature allows instant tube replacement. Photo-cell connections at opposite ends of the chassis, each adjacent to the projector it serves. All terminals covered by metal boxes having knock-outs at side and bottom. Output impedance of amplifier 500 ohms—other impedances from 250 to .7 ohms available by simple change in connections.

REMOTE OPERATED D.C. EXCITER (FIG. C)

For real high-fidelity, this d.c. exciter should be used. Two tungar bulbs in a thoroughly filtered, humless full-wave rectifier circuit supply 10 volts at 7.5 or 5 amps., and 8.5 volts at 4 amps. for the exciter lamps—terminal strips with "BX" knock-out boxes insure proper connections. The terminal strips are mounted on opposite ends of the chassis to simplify connections to the projectors. Primary of the a.c. line transformer is tapped so that fluctuations in line voltage can be compensated for; tap-selector switch on panel. The assembly is entirely remote-control operated; individual remote stations are used for sound change-over from one projector to the other. Station units are so constructed that they can be mounted directly on the projector, or any other convenient location. Any number of remote-control stations can be used with the exciter.



Model 400-A—Lafayette 40-watt Theatre Amplifier, less tubes. Panel for standard rack mounting. For 110 volts, 50-60 cycles a.c. Dimensions: 19" x 8 3/4" x 9 1/4". Shpg. wt. 73 lbs. **\$129.00**
Code ASTAN, List Price
Kit of tubes for above, List Price **\$9.44**
YY22086—Metal cabinet for above, black crystalline finish. Designed for wall mounting. Doors on sides. Shpg. wt. 22 lbs. 20 1/2" x 10 1/2" x 10". List Price **\$14.40**

Other features include: precision meter for checking exciter lamp voltage supply; pilot light indicators in all circuits; terminals for BX or conduit connections.

Model 404-A—Lafayette D.C. Exciter Panel, less tungar bulbs and remote control stations. Panel for standard rack mounting. For 95-130 volts, 50-60 cycles a.c. Dimensions: 19" x 8 3/4" x 9 1/4". Shpg. wt. 73 lbs. Code ASTIS. **\$119.00**
List Price

YY22088—6 ampere tungar bulbs, (G.E.). Two required. List Price Each **\$8.00**

YY22086—Metal cabinet to house d.c. exciter panel. Wrinkle black finish. Has doors on either side. 20 1/2" x 10 1/2" x 10". For wall mounting. Shpg. wt. 22 lbs. List Price **\$14.40**

YY22257—Remote control stations. 4 1/2" x 2 3/4" x 2". Shpg. wt. 9 lbs. List Price Each **\$7.90**

Write for detailed descriptive booklet

DeLuxe THEATRE AMPLIFIER

COMPLETE SYSTEMS

The entire line of Lafayette theatre sound equipment is composed of five fundamental units: the amplifier—the d.c. exciter panel—the a.c. exciter panel—the monitor panel—the dual channel selector panel. By properly grouping the units, using the 40-watt deluxe amplifier as a basic unit, a system can be assembled to meet practically any requirement in the sound-on-film field. Systems from the most inexpensive (illustrated, Fig. A, page 30) to the elaborate five-panel model (at the right), can be assembled with equal facility.

STEEL RACK CABINETS

All units comprising a system are housed in specially designed wall mounting rack-type steel cabinets. These cabinets are provided with doors on each side so that the projectionist can have instant access to all parts.

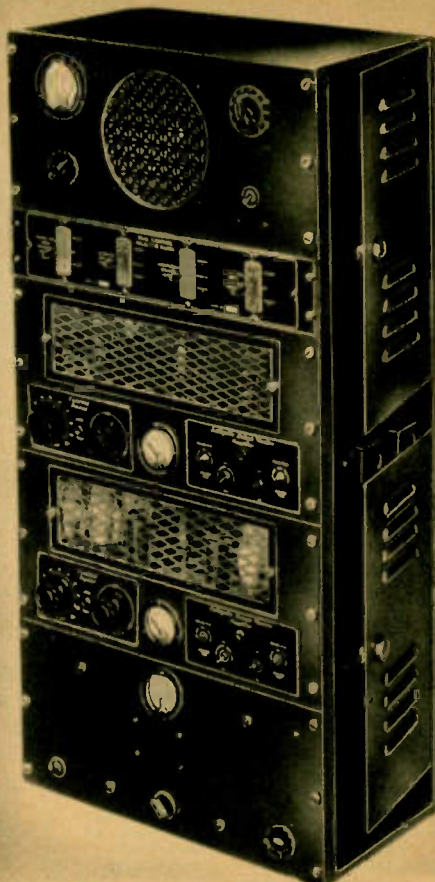
LOW COST INSTALLATION

Systems are so arranged, that no external wiring other than the a.c. line and stage speaker connections are necessary. Wherever dual channels are provided, terminals are mounted on opposite ends of the chassis—photo-cell leads are always adjacent to the projectors they serve. Systems are ultra-simple to install; necessary repairs or replacement can be made with the utmost speed.

WALL MOUNTING CABINETS

All systems are housed in specially designed steel rack cabinets that can be mounted on the wall in the projection room, between projectors. Even the deluxe 5-panel system illustrated at the right is compact enough to mount on the front wall between projectors.

All terminals are designed for BX connections. Terminal covers included.



DUAL CHANNEL THEATRE SYSTEM No. 705-P

The Lafayette wide-range, high-fidelity theatre system pictured above is the most elaborate in the Lafayette line. It is capable of truly remarkable performance, and can be used in any theatre with up to approximately 3,000 seats. A spare amplifier is included, and is ready for instant operation at all times. The change-over panel permits amplifiers to be used individually with two projectors as inputs (for test purposes). Monitor and auditorium speakers act as separate output devices. Stand-by arrangement is also provided.

The system is made up of the following units: two Lafayette 40-watt theatre amplifiers; one d.c. exciter panel; one monitor panel; one dual channel selector panel. The cabinet housing the system is compact enough to mount directly on the wall between projectors. Panels finished in rubber black.

System No. 700-P—Consists of one 400-A amp. and one 403-A a.c. exciter in rack cabinet 20½" x 14" x 10". Shpg. wt. 95 lbs. Code SCABE. Complete with tubes. **\$174.54**
List Price.

System No. 701-P—Consists of one 400-A amp. and one 404-A d.c. exciter with one remote station. In rack cabinet 20½" x 28½" x 10". One 8¾" blank panel. Shpg. wt. 175 lbs. With all tubes. Code SCATO. List Price. **\$309.22**

System No. 702-P—Consists of one 400-A amp., one 402-A monitor and one 403-A a.c. exciter. In rack cabinet 20½" x 28½" x 10". One 5½" blank panel. Shpg. wt. 140 lbs. Complete with tubes. **\$234.58**
Code SCBEB. List Price.

System No. 703-P—Consists of one 400-A amp., one 402-A monitor and one 404-A d.c. exciter with one remote station. In rack cabinet 20½" x 28½" x 10". Shpg. wt. 175 lbs. With all tubes. Code **\$371.24**
SCDOB. List Price.

System No. 704-P—Consists of two 400-A amp., one 403-A a.c. exciter and one 405-A dual channel selector.

In rack cabinet 20½" x 28½" x 10". One 1¾" blank panel. Shpg. wt. 197 lbs. With all tubes. **\$392.74**
Code SCERO. List Price.

System No. 705-P—Consists of two 400-A amp., one 402-A monitor, one 404-A d.c. exciter and one 405-A dual channel selector. In rack cabinet 20½" x 40" x 10". Shpg. wt. 225 lbs. With all tubes. **\$582.00**
Code SCFAN. List Price.

System No. 706-P—Consists of two 400-A amp. and one 405-A dual channel selector. In rack cabinet 20½" x 28½" x 10". Shpg. wt. 186 lbs. With tubes. **\$373.04**
Code SCGIS. List Price.

System No. 707-P—Consists of one 400-A amp. and one 402-A monitor. In rack cabinet 20½" x 28½" x 10". One 8¾" blank panel. Shpg. wt. 139 lbs. With tubes. **\$220.22**
Code SCHAS. List Price.

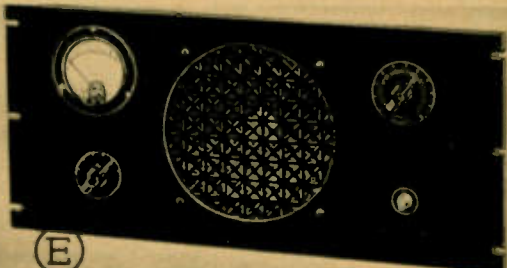
System No. 708-P—Consists of one 402-A monitor and one 404-A d.c. exciter with one remote station. In rack cabinet 20½" x 28½" x 10". One 8¾" blank panel. Shpg. wt. 136 lbs. With tubes. **\$229.68**
Code SCJIB. List Price.



A.C. EXCITER PANEL (Fig. B)

Illustrated on page 30 (Fig. B). Designed for use in installations where extreme high-fidelity results are not required. Transformer supplies both 8.5 volts at 4 amps. and 10 volts at 7.5 amps. A manual change-over switch of the multi-contact type changes from one to the other of the two output terminals (for use with two projectors). Green and red jewel pilot lights indicate which projector is being supplied. All terminals provided with metal boxes having knock-outs for BX cable connections. Panel for standard rack mounting. Size 19" x 3½" x 4". Shpg. wt. 13 lbs. Code ASTER. **\$19.90**

Model 403-A—List Price



DUAL CHANNEL SELECTOR (Fig. D)

The dual channel selector is designed to facilitate operation of systems employing spare amplifiers and other complementary equipment. The four switches are of the anti-capacity type—most efficient known. Circuit so arranged that the filaments of the amplifier not in use are kept on—ready for instant operation. One amplifier can be used with the projector while the other amplifier is being tested through the monitor speaker. All connections designed for low-capacity conduits. Panel for standard rack mounting, 19" x 3½" x 4". Shpg. wt. 17 lbs. Code ASTMA. **\$53.90**

Model 405-A—List Price

COMPLETE MONITOR PANEL (Fig. E)

Used for checking reproduction directly at the system. Consists of an 8" permanent magnet type dynamic speaker, a variable range output level indicator and a volume control for the monitor speaker. The output meter is calibrated directly in decibels—a six-position selector switch on the panel controls output measurements from lowest to highest levels. Speaker opening is protected by a steel screen grille. Panel for standard rack mounting, finished in instrument black. "On-off" toggle switch on panel. Size 19" x 8¾" x 4". Shpg. wt. 17 lbs. Code ASTYL. **\$53.90**

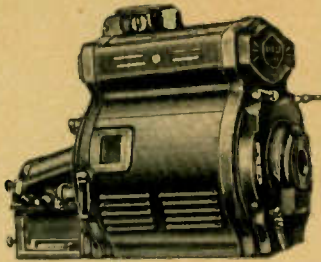
Model 402-A—List Price

Write for detailed descriptive booklet

STANDARD Theatre EQUIPMENT

BRENKERT ENARC Projection Lamp

This popular type projection lamp assembly incorporates every feature desirable for projection work. Light is supplied in abundance, is absolutely flicker-free, and every detail of the picture is clear and distinct. Light is of the proper color to enhance tones pleasing to the eye, and to project color pictures with true color shading. The unit is economical in both initial cost and in operation. Outstanding features include: automatic arc centering rest; rigid mirror alignment; right-left-rear operation of the entire mechanism; universal arc viewing device; duplex housing construction whereby the mechanism chamber protects all moving parts from the ash of the arc and the dust of the projection room; unit construction whereby the positive head assembly, negative head assembly, motor and gear case assembly can be quickly removed and as quickly replaced. These features result in consistently even and bright screen illumination, long mechanism life, facility in cleaning and servicing, etc. Wide-range feed regulation to both carbons permits burning amperage required to produce proper screen intensity and control costs of operation as desired. The Brenkert Enarc uses the new "Suprex" carbons at 40 to 65 amperes. The mechanism has been tested and approved by the Underwriters Laboratories and the National Board of Fire Underwriters. Shpg. wt. 200 lbs.



YY20070 Complete Enarc Lamp House
Net Price \$350.00

NATIONAL "SUPREX" High Intensity Carbons

Copper coated, high intensity carbons. Provide maximum brilliancy. In unit packages of 50 or in cases of 250 carbons.

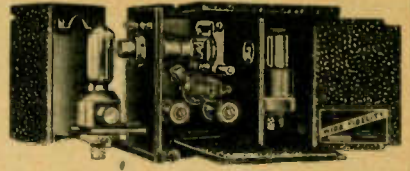
Stock No.	Diam. in Mils.	Length in Inches	Type (all copper coated)	Shpg. Lbs. per 250	Pkg. of 50	Net Price Case of 250
YY20071	6	10	Cored Positive	8	\$5.40	\$25.40
YY20072	7	12	Cored Positive	14	6.95	28.00
YY20073	6	9	Cored Negative	9	3.35	15.75
YY20074	8	12	Cored Positive	18	6.30	29.75
YY20075	7	9	Cored Negative	11	3.55	16.65

G.E. 1/4 H.P. 1725 R.P.M. Constant Speed Motor

Genuine General Electric high quality constant speed motor, suitable for use with sound head above, right. Pulley to take standard V-belt. Conservatively rated at 1/4 h.p., 1725 r.p.m. Constant speed type. Shpg. wt. 25 lbs.
YY20078 - List Price **\$19.50**

Wide Fidelity Sound Head

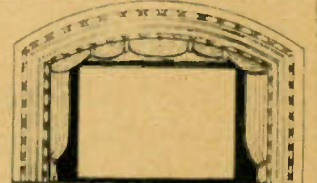
This well known sound head, manufactured by the Electrical Audition and Research Laboratories, faithfully reproduces high fidelity and wide range recordings. Features include:



Bausch and Lomb optical equipment; integral precision plate assembly (entire mechanism, including exciter lamp mounting and lens equipment can be instantly removed and changed merely by removing two screws); hardened sound aperture plate; floating spring tension gate; vernier adjustment exciter lamp holder (capable of instantaneous removal and replacement); rugged and fully protected photo-cell mounting; extra large precision die-cast flywheel; polished sound sprocket shaft; Perkins precision sound sprocket; V-belt drive, risers, brackets and all driving attachments included. For use with 1725 r.p.m. motor. Specify make and model projector sound head is used with when ordering. Less p.e. cell and lamp. Shpg. wt. 35 lbs.
YY20076 For Simplex, Kaplan and Superior Projectors
YY20077 For Powers Projectors
List Price, Either Type \$115.00

T.S.C. Sound Screens

Made by the Theatre Screen Corp., these screens are guaranteed not to yellow with age—do not use cellulose acetate. Advantages are: extreme brilliancy, depth and sharp definition to the pictures, natural color values in color pictures, natural sound, etc.



Super Series "A"
 For maximum reflection and color sensitivity. Titanium coated.
Super Suprex. For Suprex carbons. White diffusive.
YY20079
List, per sq. ft. \$1.00
Super Chromolite. For Hi-Lo and Hi-intensity lamps. White diffusive.
YY20080
List, per sq. ft. 86¢
Super Vocalite. Crystal beaded. For Mazda and Lo-intensity.
YY20081
List, per sq. ft. 90¢

Series "B"
 Semi color sensitive. Not quite as good as super series "A"
Hi-Lite. For Suprex carbons. White diffusive.
YY20082
List, per sq. ft. 70¢
Goodlite. For Hi-Lo and Hi-intensity lamps. White diffusive.
YY20083
List, per sq. ft. 58¢
Suntone. For Mazda and Lo-intensity lamps. Crystal beaded.
YY20084
List, per sq. ft. 80¢

Photo-Cell Type 868

Caesium type. For use with photo electric equipment or sound-on-film. Anode supply 90 volts max.; anode current 20 microamperes max. Static sensitivity 45 microamperes per lumen. Dynamic sensitivity (at 1000 cycles) 40 microamperes per lumen. 4-prong.

Net Price Each \$5.00

Lafayette 868

Has the same characteristics as the above tube. Caesium type.
Net Price Each \$4.00

Exciter Lamps

Designed and engineered by one of the pioneers in the field, these lamps are scientifically constructed to give long and satisfactory service.

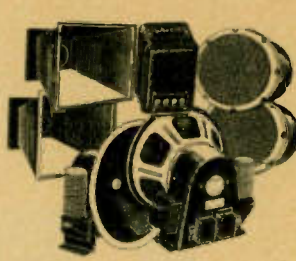
Type	Volts	Amps.
854	8.5	4.0
105	10	5.0
107	10	7.5

(Base: S. C. Bayonet)

List Price Each, Any Above Type \$1.00

Note:—We can supply all types of high and low power amplifier and rectifier tubes. Prices furnished on request.

"High Fidelity" Speaker Combination



The speaker combination illustrated will provide a truly high fidelity response, and is suitable for many types of theatre installations. The assembly is composed of the following equipment: 2—Jensen A-12 12" high fidelity a.c. dynamics with rectifier tubes (YW19305 on page 43); 2—Jensen Q-5A High Frequency "Tweeter" dynamics (YW19355 on page 43); 1—Jensen type F9 filter for the "tweeters" (YW19356 on page 43); 1—field exciter unit for the two "tweeters", complete with 83V rectifier tube (YW19235 on page 44); 2—Directional Flare Baffles (YY20053 on page 44).
YY20085 - Complete system. Shpg. wt. 125 lbs.
List Price \$174.00

NOTE: We can furnish suitable speaker systems for any type of installation. Send full particulars and we will quote.

FOREST Copper Oxide Rectifiers

The most modern, most efficient and dependable source of pure direct current supply. Uses no bulbs, and there are no parts to replace and no maintenance. Pure, ripple free direct current supplied to the arc—can be adjusted to required amperage. Will give years of trouble free service. All parts are oversized and well ventilated. The entire unit is in a steel casing, and suction type ventilation is used. The ventilating motor is of the ball bearing type, factory lubricated, and requires no attention. **Automatically protected.** Units listed below are for use on 200 to 250 volt, 50-60 cycles, 3-phase a.c. lines. Will supply two Suprex carbon arcs.

Stock No.	Duty	Amperes	D. C.	H.	W.	D.	Shpg. Wt. Lbs.	Net Price
YY20086	2 Lamps	33 to 50	34"	19"	20"	800	550.00	
YY20087	2 Lamps	45 to 65	34"	19"	20"	425	650.00	

Prices on other projection room supplies such as: projectors, lenses, take-ups, re-winders, magazines, etc. on request.

CETRON Photo-Electric Cells

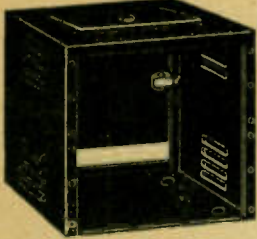
Cetron photo cells are manufactured of the finest materials, and will give long efficient service. Caesium filled. Feature high ionization point, greater current output and wider frequency response. Type CE-3 has leads; others have prongs.
Type CE-1—Used in the following equipment: Bell and Howell, International Projector, RCA Photophone.
Net Price Each \$6.00
Type CE-2—Used in the following equipment: DeVry, Good-All, Phototone, SOS, Motiograph, Facnet, Weber.
Net Price Each \$6.00
Type CE-3—Used in Ultraphone West. Elect. (ERPI).
Net Price Each \$6.00

Bluebook of Projection

The sixth edition of this famous book on motion picture projection and sound reproduction written by F. H. Richardson, with A. Naddell as collaborator. Contains 709 profusely illustrated pages, check full of information. Shipping weight 5 pounds.
YY20088
Net Price \$5.00

RACKS · PANELS · CABINETS

Steel Cabinets for Rack Panels



Take standard 19" panels. Built of 1/4" steel, black crystalline finish. Single panel units have door on top; multiple panel units have doors on top and in rear. Sides and back have louvres. Mounting feet on bottom. All hardware furnished.

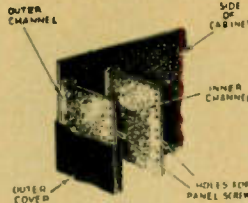
YY22194—For single panel. 8 3/4" high, 12" deep. Shpg. wt. 20 lbs.
List Price \$8.90

YY22003—Same as above, but 10 1/2" deep. Shpg. wt. 22 lbs.
List Price \$10.90

YY22193—For two panels. 17 1/2" high, 13" deep. Shpg. wt. 34 lbs.
List Price \$15.70

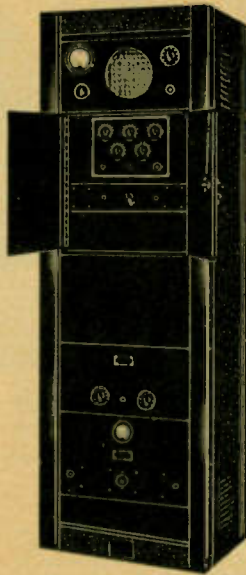
YY22192—For three panels. 26 1/4" high, 13" deep. Shpg. wt. 42 lbs.
List Price \$16.40

New! Enclosed DeLuxe P. A. Rack



A specially constructed enclosed rack for high quality P. A. installations. Built of heavy gauge steel. Corner pieces have rubber black finish; base, top and sides finished in crystalline black. Two panel mounting channels are provided so that all units can be kept flush with face of rack when doors are used. Doors mount on outer channel, panels on inner and outer channels as illustrated. Mounting holes spaced 1 3/4" apart, and are tapped for 10-32 hardware. Rack designed for standard 19" panels (available drilled for W. E. panels on special order, higher price). Back in form of door with two heavy latches, has two ventilating screens. Sides louvred. Front so arranged that no mounting screws show (as illustrated). Overall height 67 1/2", with 6 1/4" of panel space. Overall depth 15 1/2"; depth from inner channel 12 1/2"; from outer channel 14". Shipped completely assembled (less panels and front doors). Shipping weight 230 lbs.

YY22390—DeLuxe enclosed rack, complete less panels. **Shipped from New York warehouse only. \$89.00 List Price.**



Blank Steel Panels



Built of 1/4" steel, with rubber black finish. All 19" long; will fit racks listed on this page.

Stock No.	Height	Shpg. wt. Lbs.	List Price
YY22391	3 1/2"	5	\$2.10
YY22392	7"	8	3.20
YY22393	8 3/4"	9	3.90
YY22394	10 1/2"	10	5.00
YY22395	12 1/4"	12	5.90

Steel Doors for the DeLuxe Enclosed Rack

For use on the DeLuxe rack shown at left. Of 1/4" steel with rubber black finish. Doors are 17 1/2" high (equal to two 8 3/4" panels). Provided with lock and two keys. Chrome plated handle grip latch. Comes complete with two steel closure angles. Shpg. wt. 19 lbs.

YY22396 \$14.80 List Price



Enclosed P. A. Racks



Constructed of heavy gauge steel finished in black crystalline lacquer. Take standard 19" panels. Sides have louvres, back panel in form of door with heavy latch. Panel holes spaced 1 3/4" apart; drilled and tapped for 10-32 hardware. Shipped knocked down, with all necessary nuts, bolts and washers. Both models listed below are 20 1/2" wide and 15" deep overall. Available panel space shown. The 42" model can be obtained with a steel phono shelf in place of the top panel; see listing below.

Stock No.	Dimensions Height Panel Space	Shpg. Wt. Lbs.	List Price
YY22154	42" 36 3/4"	75	\$35.50
YY22153	66 3/4" 61 1/4"	120	45.00

Standard Open P. A. Racks

Just the thing for that neat, professional looking P. A. installation. These sturdy steel racks are constructed of 1/2" steel with spot welded corners. Assembly finished in black crystalline lacquer. Designed to take standard 19" rack panels. All mounting holes are drilled and tapped for 10-32 hardware. Holes are spaced 1 3/4" apart. Both models listed below are 19 3/4" wide and base is 16" deep overall. The wide, strongly braced base prevents any wobble and keeps mounted units in correct alignment at all times. A available panel space on the racks indicated below. Only two models available.



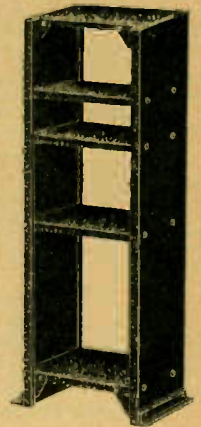
Stock No.	Dimensions Height Panel Space	Shpg. Wt. Lbs.	List Price
YY22151	37 1/4" 3 ft.	30	\$17.40
YY22150	73" 6 ft.	60	21.40

Sectional P. A. Rack

Will improve the appearance of any existing installations. Entire assembly constructed of steel with black crystalline lacquer finish. Adaptable to almost any apparatus. Comes furnished with three shelves in addition to the bottom shelf. Rack stands 5 feet high, 19 1/4" wide and 12 3/4" deep. Channel type of construction allows hiding of all unsightly wiring. All corners reinforced with steel braces. Shipped in knockdown form with all necessary nuts, bolts and washers. Shpg. wt. 60 lbs.

YY22152 \$19.00 List Price

Additional steel shelves. Shipping weight 7 lbs.
YY22159 List Price Each \$1.80



Steel Phono Shelf

For use with above enclosed rack (3 1/4" ft. model). Heavy gauge steel, black crystalline finish.

YY22397—For Capehart record changer. Shpg. wt. 25 lbs.

YY22398—For Green Flyer motor. Shpg. wt. 25 lbs.
List, Either Type \$9.60

If the 3 1/4" enclosed rack listed above (YY22154) is desired with steel phono shelf in place of top panel, add \$3.00 to the list price.

Steel Brackets

For panels 7" or higher. Black wrinkle finish.

YP15271—For 8" base
List Price, per Pair \$1.08

YP15272—For 11" base
List Price, per Pair \$1.78

Speaker Panels



12 gauge steel with rubber black finish. Designed for standard rack use.

YY22240—Panel for 6" speaker. 8 3/4" by 19"; 4 3/4" hole diameter. Shpg. wt. 6 lbs.
List Price \$3.00

YY22241—Panel for 8" speaker. 10 1/2" by 19"; 6 1/2" diameter hole. Shpg. wt. 8 lbs.
List Price \$3.50

YY22242—Panel for 10" speaker. 14" by 19"; 10" diameter hole. Shpg. wt. 10 lbs.
List Price \$5.50

Loud Speaker Cabinets

These loud speaker cabinets add the final professional touch to the P. A. installation, and at the same time provide perfect protection for the speaker. Steel with black crystalline finish. Front panel is removable.

YY22243—Speaker cabinet 9x9x6". For 6" speaker. Hole 4 3/4". Shpg. wt. 8 lbs.
List Price \$4.50

YY22244—Speaker cabinet, 11x11x7". For 8" speaker. Hole 6 1/4". Shpg. wt. 9 lbs.
List Price \$5.50



Rack Mounting Phono Shelf

Designed to take all phono equipment. Fits all racks listed on this page.

1/4" steel, rubber black finish. 16 1/2" wide 5 1/2" deep. Angle brackets can be used at front or rear. Complete with hardware. Shpg. wt. 20 lbs. Blank top panel.

YY22341 List Price \$15.00

With top panel cut for Capehart record changer.
YY22342 List Price \$18.50

With top panel cut for Green Flyer motor.
YY22343 List Price \$17.00



AUBURN 3 1/2 WATT AC AMPLIFIER

AUBURN'S reputation for building high-quality equipment at prices far below those of similar units on the market is further strengthened by this well-constructed amplifier. Units of this type fill a well defined need in the sound field, since they can be used as phonograph amplifiers, as the basis of call systems, for inter-office communication systems, and a multitude of other applications of similar nature. The quality of reproduction afforded is exceptionally fine, and volume is ample for all purposes.

WELL-DESIGNED CIRCUIT—3 1/2 WATTS

The amplifier utilizes three modern type tubes in a well designed circuit. These are: 1-57 pentode resistance coupled to a 2A5 pentode output tube and a type 83 mercury-vapor rectifier. Power output afforded is a full 3 1/2-watts (5-watts peak). Regulation is exceptionally good, due to the careful filtering. An overall gain of 76 db at 150,000 ohms input impedance is provided.

BUILT-IN MICROPHONE CURRENT SUPPLY

One of the outstanding features of this amplifier is the built-in provision for supplying microphone current, thus eliminating the need for external batteries. A symmetrically wound transformer is used to handle the output of a double-button carbon microphone (200 ohms per button). The mike cable connects to a terminal strip which is mounted on the rear of the chassis.

Sufficient energy is furnished by the amplifier to fully excite the field of any 2500 ohm dynamic speaker. Speaker must be provided with a suitable transformer to match the output of the 2A5 tube. Speaker connects to a socket on rear of chassis.

OTHER IMPORTANT CIRCUIT FEATURES

Features in addition to those described above include: a high-impedance channel available at a jack on rear of amplifier. This

IN response to a definite demand for an amplifier capable of universal operation, that is, operation on either a.c. or d.c. (110-volts), Auburn has developed this high-quality unit. Its uses are many and varied in those localities where direct current is still supplied as a commercial source, or where an isolated plant furnishes the current supply.

WELL DESIGNED TROUBLE-FREE CIRCUIT

Three tubes are used in the circuit. These are: 1-6C6 pentode, 1-43 pentode power output tube, and 1-25Z5 rectifier. Tone quality is exceptionally fine for this type of amplifier, and components used in its construction are designed to provide ample safety factor under all normal conditions of use. This means that continuous, trouble-free service is assured.

MICROPHONE BATTERY BUILT-IN

A battery for supplying button current to a carbon microphone is built into the amplifier. A high-quality type transformer is also included to match the output of any suitable two-button carbon mike (200 ohms per button) to the input of the first tube.

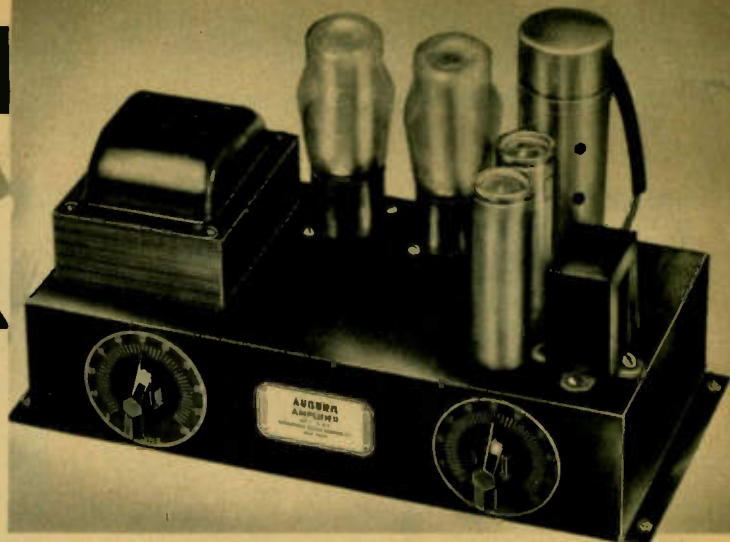
HIGH-IMPEDANCE INPUT INCLUDED

In addition to the mike input circuit, a high-impedance channel (available at a jack on rear of chassis) is also provided. This channel is designed for use with phonograph pick-ups, electric guitars and other similar devices. When the high-gain channel is in use, the microphone circuit is automatically opened.

tone and gain controls

A full range, continuously variable tone control is provided to permit limiting of high-frequency response and help to eliminate feed-back. The other control is

AUBURN UNIVERSAL AC-DC *Utility* AMPLIFIER



channel is suitable for use with phonograph pick-ups, electric guitars, and similar devices. When the high impedance channel is used, the microphone circuit is automatically opened; a full-range, continuously-variable tone control permits limiting of high-frequency response and helps to eliminate feed-back; a master gain control governs volume from cut-off to full power output smoothly and noiselessly.

The entire assembly is contained on a metal chassis measuring only 14" long, 7" high and 6 1/2" deep overall. It can easily be placed in a carrying case or a small cabinet because space is provided on chassis for speaker. Components used in its construction are designed to provide ample safety factor under all normal conditions of operation, so that long, trouble-free service is insured. Overall finish on chassis is gleaming instrument-black.

The amplifier is designed to operate on 110-volts, 50-60-cycles a.c. only. If 220-volt, 50-60-cycle lines are to be used, use step-down transformer such as those listed on page 38.

YP15800—Auburn 3 1/2-Watt Amplifier, less tubes. For operation on 110 volts, 50-60 cycles a.c. Shpg. wt. 12 lbs. Code, AMSES. List Price **\$18.90**

Kit of tubes for above, 1-57, 1-2A5, 1-83. List Price **\$2.77**

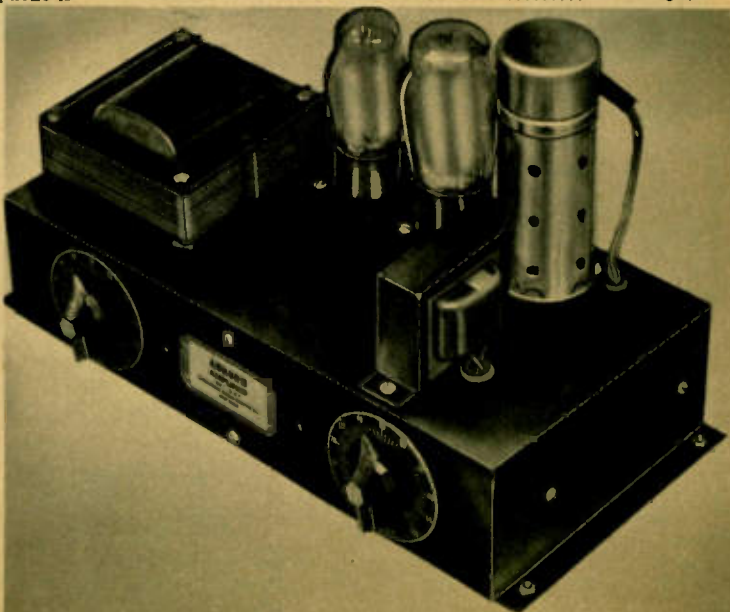
the master gain control that governs volume from merest whisper to full power. Both controls are operated by means of pointer knobs and provided with graduated dials.

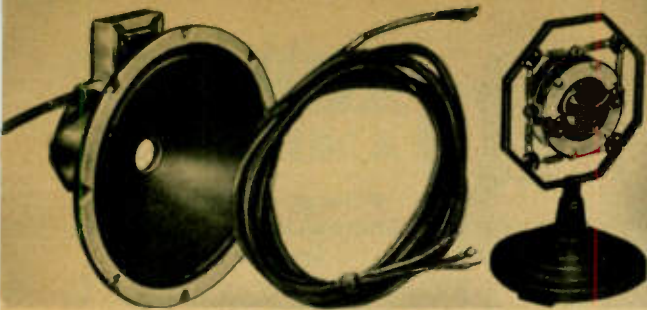
COMPACT, RUGGED CONSTRUCTION

The entire assembly is mounted on a metal chassis that is small enough to be housed in a portable carrying case or small cabinet because space has been provided on chassis for speaker. Dimensions: 12" long, 7 1/4" high and 6 1/2" deep. Overall finish in lustrous rubber-black lacquer. Refer to page 35 for a listing of a complete system using the Auburn a.c.-d.c. Utility Amplifier. For 110-volt operation only. Available for 220-volt and 250-volt operation on special order at slightly higher price.

YP15804—Auburn A.C.-D.C. Utility Amplifier, less tubes. Shpg. wt. 15 lbs. Code, UBERB. List Price **\$17.90**

Kit of tubes for above, 1-6C6, 1-43, 1-25Z5. List Price **\$2.97**





AUBURN COMPLETE A.C. SYSTEM

THE model 528-P system is designed for permanent installations wherever low-power, comparatively inexpensive equipment is required. It makes use of the YP15860 a.c. amplifier described on page 34, and has many uses in the sound field. The system is especially well suited for use as a phonograph amplifier, for inter-office call systems, for store demonstrations, etc., and is easy to set up and operate. The power output afforded is 3 1/2-watts, with 5-watts peak power. Quality is unusually good for a system of this size. Accessories used to complete the system consist of a high-quality double-button carbon mike, a dynamic speaker with proper matching transformer, a desk stand for the mike, and all necessary cables and connectors.

The amplifier uses 1-57, 1-2A5 and 1-83 in a circuit providing ample gain for the carbon mike. Button current for the mike is supplied by the amplifier, so that no external batteries are required. The high-impedance input channel, for use with phono-pick-ups, electric guitars, etc., is available at a jack on the rear of the amplifier. When this channel is used, the mike circuit is automatically opened. Amplifier is on a metal chassis 14" x 7" x 6 1/2" deep, finished in rubber-back. System designed to operate on 110-volts, 50-60-cycles a.c. only.

Model 528-P—Complete Auburn 3 1/2-watt a.c. system comprising one YP15860 amplifier, one YW19128 speaker with 6 ft. of cable and plug, one YN13384 double-button carbon mike with 12 ft. of YQ16139 cable, one YN13540 desk stand with springs and complete set of tubes. Ready to operate. For 110-volts, 50-60-cycles a.c. Shpg. wt. 35 lbs. Code, SPOTA. **\$39.87**
List Price

YN13384—Double-button carbon mike only. Shpg. wt. 4 lbs. List Price **\$7.50**

YN13540—Desk stand only. Shpg. wt. 5 lbs. List Price **\$2.00**

YW19128—Dynamic speaker with matching transformer. Shpg. wt. 5 lbs. List Price **\$7.50**

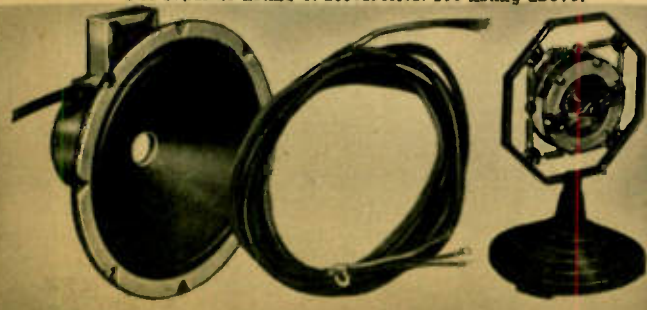
AUBURN COMPLETE A.C.-D.C. SYSTEM

THE Auburn model 529-P system is designed for general utility work, and operates equally well on either alternating or direct current. The complete assembly is based on the YP15864 amplifier that is fully described and illustrated on page 34. Accessories used to complete the system include a high-quality double-button carbon mike, a dynamic speaker with proper matching transformer, a desk stand for the microphone and all necessary cables and connectors. Designed for use in localities where both a.c. and d.c. are used, the system is well suited for use in installations such as kitchen call systems, phonograph amplifier systems, store window demonstration systems, and others of similar nature. As listed, the system is ready to operate; no other accessories need be purchased. Setting up and taking down equipment is extremely simple; full instructions are furnished.

The amplifier circuit makes use of one 6C6 pentode, one 43 output tube and one 25Z5 rectifier. Button current for the microphone is supplied from a battery built into the amplifier, so that no external source of current is necessary. A high-quality transformer built-in matches the output of the double-button mike to the amplifier input, providing maximum transfer of energy. A high-impedance channel, available at a jack on the rear of the amplifier, can be used for phono-pick-up, electric guitar or other similar input devices. When this channel is in use, the microphone circuit is automatically opened. All connections for mike and speaker are made to socket and terminal strip on rear of chassis. Amplifier measures only 12" long, 7 1/4" high and 6 1/2" deep. Rubber-black finish on chassis.

Model 529-P—Complete Auburn a.c.-d.c. system comprising one YP15864 amplifier, one YW19128 speaker with 6 ft. of cable and plug, one YN13384 double-button carbon mike with 12 ft. of cable, one YN13540 desk stand with springs and a complete set of tubes. Ready to operate. For operation on 110-volts, 50-60-cycles a.c. or 110-volts d.c. Shpg. wt. 38 lbs. Code, SRAKE. **\$39.07**
List Price

For separate listing of accessories, see listing above.



AUBURN

Portable A.C. SYSTEM

THE model 15865 Auburn portable system has an output of 3 1/2-watts, making it ideally suited for use in department stores where some competing noise is present. The system makes use of the 15860 amplifier described on page 34, and a highly efficient dynamic speaker, within a single compact brown leatherette covered carrying case measuring only 13" x 8 1/2" x 9" high.

The system is particularly designed for voice amplification, and the reproduction is loud and clear. It is thus possible for a demonstrator to talk to much larger audiences than would be possible without it. The microphone can be placed at any desired distance from the amplifier and speaker without loss in either volume or tone. Either hand, desk or floor type microphones can be used. No batteries are employed—button-current is furnished by the amplifier. The system can also be used with a phonograph pick-up to reproduce records, and will provide excellent results. When phono input is used, mike circuit is automatically opened. System operates on 110 volts, 50-60 cycles a.c. only.

Model 15865—Auburn a.c. portable system, less tubes and microphone. For 110-volts, 50-60-cycles a.c. Shpg. wt. 27 lbs. Code, ULBAS. **\$35.90**
List Price

Kit of tubes, 1-57, 1-2A5, 1-83. List Price **\$2.77**

Model 605-P—Mike combination consisting of a double-button carbon mike YN13384 mounted on a desk stand YN13540 and equipped with 25 ft. of mike cable. Shpg. wt. 15 lbs. **\$11.80**
Code, SEQRO. List Price



AUBURN

Portable A.C.-D.C. SYSTEM

THE model 15866 Auburn portable system is designed to operate on either alternating or direct current (110-volts). It is primarily intended for use by demonstrators and others working in large cities where both a.c. and d.c. are used. It is a complete, compact unit, incorporating in a single case a high-quality a.c.-d.c. amplifier (fully described on page 34), and a highly efficient dynamic speaker. The only additional equipment required is a carbon microphone (the hand type can be carried inside the portable case). The portable case is brown leatherette covered, and measures only 13" x 8 1/2" x 9" high.

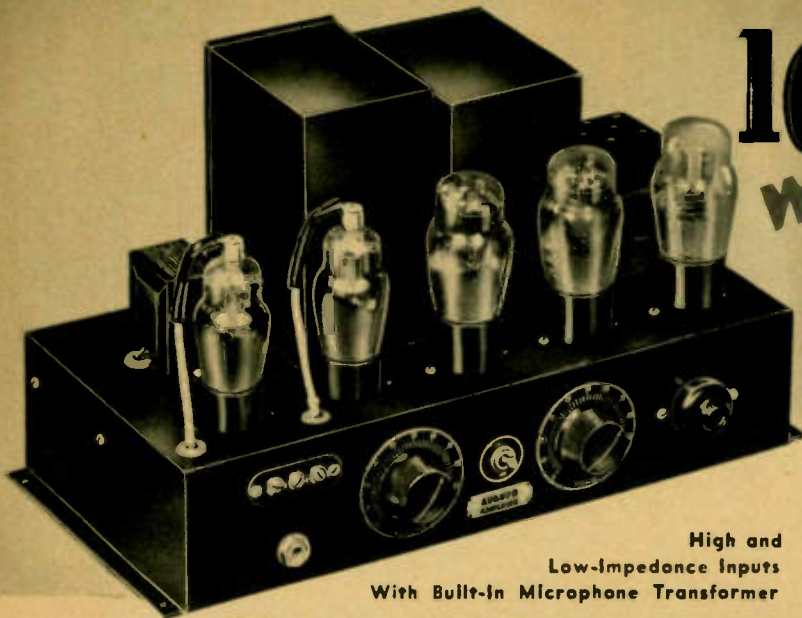
MICROPHONE BATTERY IS BUILT-IN

The amplifier circuit uses 1-6C6, 1-43 and 1-25Z5, providing ample gain for the two-button carbon mike. Mike battery is built into the amplifier—no external batteries required. A high-impedance input channel, available at a jack on the rear of the chassis, can be used for phonograph pick-ups, electric guitars, and other similar devices. When high-impedance channel is in use, the mike circuit is automatically opened. Controls on the front panel consist of a gain control and a full range tone control. Tone control limits high-frequency response to suit the individual requirements of the installation.

Model 15866—Auburn a.c.-d.c. portable system, less tubes and microphone. For operation on 110-volts, 50-60-cycles a.c. or 110-volts d.c. Shpg. wt. 25 lbs. Code, UTARE. **\$33.90**
List Price

Kit of tubes, 1-6C6, 1-43, 1-25Z5. List Price **\$3.97**

Use mike combination No. 605-P listed above.



10 WATT AUBURN AMPLIFIER

• Supplies Current For Microphone and Dynamic Speaker Fields

THIS new "Master" model Auburn amplifier is ideal for all average P.A. installations, amplified reproduction of phono recordings, for electric guitars and wherever general-purpose, high-quality amplification at low cost is desired for voice or instrument reproduction.

INCLUDES ALL MODERN FEATURES

There is nothing within its range to compare with it on a dollar-for-dollar basis. It includes features found only in amplifiers selling for much more than its remarkably low cost. Some of them are: supplies current for a carbon microphone, supplies field current for dynamic speaker fields, has two inputs—high- and low-impedance, has wide-range tone control and many others. (For further technical details, see description at left below.)

BUILT ON STURDY STEEL CHASSIS

The entire assembly is mounted on a heavy-gauge spot-welded steel chassis finished in gleaming rubber-black and dimensioned so as to permit mounting on a rack-panel if desired.

High and Low-Impedance Inputs With Built-in Microphone Transformer

TECHNICAL DESCRIPTION OF AUBURN "MASTER"

An ultra-modern circuit employing five multi-purpose tubes, (2-2A6's, 2-2A5's, 1-83), develops a peak power output of 14 watts and a normal output of 10 watts. Overall gain is 74 db (at an input impedance of 150,000 ohms—more than enough for carbon microphones, phono pickups and other high-level devices.

Two input channels are provided: one is connected to a built-in carbon microphone transformer which supplies proper matching for the average 2 0-ohm per button unit, and for which current is supplied by the amplifier. The other channel has a jack input and has an impedance of 500,000 ohms. A plug-in socket is provided for output connections. Output load impedance is 14,000 ohms. The amplifier furnishes field current for one 1000-ohm, 10-watt field or two 2000-ohm, 5-watt fields. Volume and tone controls and a power switch are mounted on the chassis. Overall dimensions of amplifier: 15 x 8 1/2 x 8".

Model YP15881—Auburn Master model, 10-watt amplifier, less tubes. For 110-volt, 50/60-cycle a.c. operation. Code AMRET. Shipping weight 19 pounds.

List Price **\$25.00**

Kit of tubes: 2-2A6's, 2-2A5's, 1-83. List Price **\$4.85**

YM13384—Matched double-button carbon microphone (described on page 41). Shipping weight 5 pounds.

List Price **\$7.50**

YQ16139—12 feet of special microphone cable.

List Price **\$1.20**

YM13428—Floor model microphone stand. Chromium.

Shpg. wt. 11 lbs. List Price **\$9.70**

YW19126—Matched 8" dynamic loud speaker with matching transformer. Shipping weight 8 pounds.

List Price **\$7.50**

30 WATT AUBURN AMPLIFIER

• Can be Used With Crystal Microphones

THIS 30-watt amplifier is the outstanding example of Auburn value and the finest buy of the year for all high-quality work.

It is especially designed for the average auditorium, dance-hall, church, athletic field and wherever considerable power output with good fidelity is required for voice or music.

DESIGNED FOR CRYSTAL MIKES

One of its many outstanding features is its ability to permit highly efficient operation of crystal microphones. An unusually high gain of 104 db (at an input impedance of 150,000 ohms) is obtained from a newly developed circuit which employs a total of seven tubes, 4-6B5's, 1-6A6, 1-6C6 and an 83 rectifier.

EXCELLENT HIGH-POWER OUTPUT

It has a peak power output of 35-watts and a frequency response that has a variation of only 2 db from 50 to 10,000 cycles—a truly high-fidelity range! Maximum output into the plate load is 30 watts.

VARIABLE OUTPUT IMPEDANCES

An oversized output transformer offers the following output impedances to match any possible speaker installation: 35/.6/1.35/2.4/6/8/15/50/250/500 ohms. Two 6-prong sockets on the chassis front facilitate speaker connections.

OVERALL VOLUME AND TONE CONTROLS

Wide-range tone control is available for attenuation of the high frequencies, as well as for assisting in controlling feed-back difficulties. A master gain control offers efficient graduation of volume from a bare whisper to the maximum output of the amplifier. These controls are mounted on the chassis front together with the input and output connections.



Supplies 32 Watts of Field Energy for Speakers

STURDY STEEL CHASSIS

The Auburn 30-watt amplifier is mounted on a heavy-gauge, spot-welded steel chassis measuring 10 by 17 by 10" high, overall. It is finished in gleaming rubber-black and equipped with side flanges for easy mounting. The overall dimensions of the chassis are such as to permit mounting the complete unit on a standard 19" rack-panel if so desired.

The amplifier supplies field current at 32 watts into 5000 ohms, sufficient for several powerful speakers. For example, four 8-watt or six 5-watt speaker fields can be used in conjunction with this amplifier.

Model YP15887—Auburn 30-watt amplifier complete with output transformer, less tubes. For 110 volts, 50/60-cycles a.c. Shpg. wt. 60 lbs. Code UMLAS. List Price **\$49.90**

Kit of tubes: List Price **\$12.13**

YM13383—Astatic crystal microphone with 6 ft. of cable. Shpg. wt. **\$22.50**

3 lbs. List Price

YM13528—Floor stand for above. Shpg. wt. 11 lbs. List Price **\$13.70**

YQ20542—Additional microphone cable for above. List Price per Foot **6c**

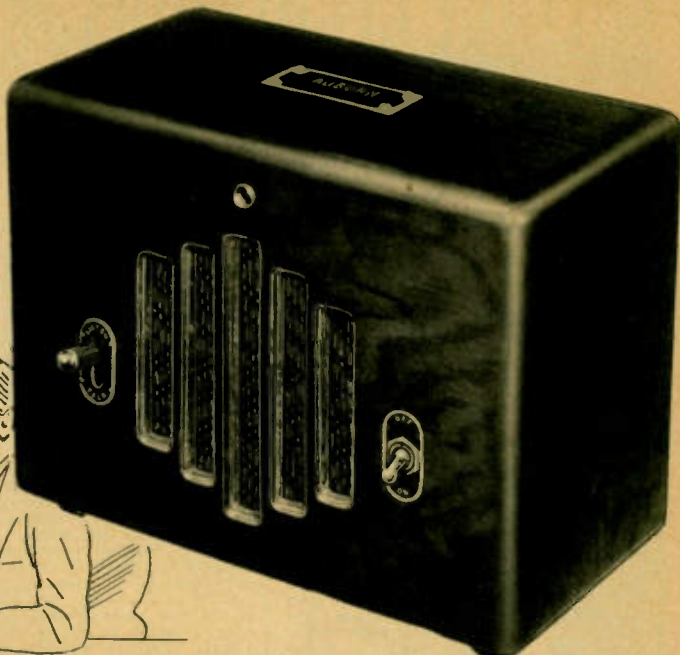
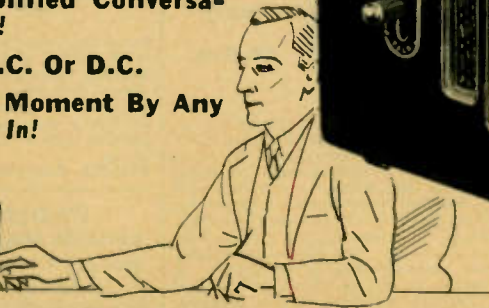
For suitable speakers and baffles see pages 42, 43 and 44 of this catalog.

AUBURN

Intercommunicating

SYSTEM

- Enables You To Hold Direct Two-Way Amplified Conversation—Instantly!
- Operates On A.C. Or D.C.
- Installed In A Moment By Any One—Just Plug In!



THE Auburn Inter-Communicating System is the latest, practicable, most efficient and fastest means of holding direct, two-way, amplified communications between two persons or departments.

KEEPS TELEPHONE LINES OPEN

It is a time-saver, labor-saver and money-saver. It keeps outside telephone lines open for incoming calls which may be important. There is no need of waiting on switchboard service or busy signals. A flip of the switch and you are in DIRECT communication with the person you want—INSTANTLY!

DESIGNED TO BE USED ANYWHERE

It has innumerable applications; from office to factory superintendent, in the restaurant from counter to kitchen, in the store from counter to stock-room, in the physician's or dentist's office from reception desk to consultation room, and many others.

OPERATES ON 110 VOLTS A.C. OR D.C.

Plug it into any 110-volt socket, either a.c. or d.c. It requires no attachments, transformers or batteries. Current consumption is negligible—it consumes no more than a night light, and it contains no moving parts except the manually operated switches.

This system replaces obsolete call and inter-office phone system which are prohibitive in cost, and require elaborate installations and maintenance, and withal, lack the qualities of this system.

EASILY INSTALLED AND OPERATED

The Auburn system consists of two similar units that are joined electrically by an easily concealed wire. All connections are made by means of simple plugs and sockets so that installation is extremely simple and in many cases requires no tools whatsoever. Many installations are completed in ten minutes!

ONE SWITCH FOR "TALK" AND "LISTEN"

Only two switches control each system—one turns the power on or off, the other is actuated for either talking or listening.

Each unit is encased in a fine hand-rubbed, piano-finished walnut cabinet measuring 10" long, 5" deep and 7 1/4" high.

Model YP15400—Auburn Inter-Communicating System, consists of two units, 50 feet of cable and necessary plugs and all tubes. Ready to plug in and operate. For 110 volts a.c. or d.c. Code, UBANO. Shipping weight 21 pounds.

\$48.00
List Price.



"LINEAR STANDARD" AUDIO TRANSFORMERS



These audio components, made by the United Transformer Company, represent the closest approach to the ideal transformer from the standpoint of uniform response, low-wave form distortion, high efficiency, thorough shielding and dependability. Laboratory tests made under actual load conditions prove that this series of audio units is linear over a frequency spectrum of 9 octaves, i.e., from 20 to 20,000 cycles—actually the entire audio band.

No effort has been spared to assure uniform characteristics of all units. A special grade of high permeability iron is used to house them, and as a result, troublesome electromagnetic induction has been practically eliminated. Each transformer is individually tested for frequency response. UTC housings are designed so that they may be fastened to the chassis or rack-panel with lugs at top or bottom, or they can be mounted within chassis or cabinet.

Overall dimensions (LxWxH): type A case, 2 1/2"x3 1/2"x3 1/2"; type B, 3 1/2"x4 1/2"x4 1/2"; type C, 5x5 1/2"x5 1/2".

Mixing and Matching Transformers

Type LS-30—Mixing, carbon or moving coil microphone or low-impedance pickup to a variable-impedance line. Primary and secondary windings will match 500/333/250/200/125 or 50-ohm line. Shpg. wt. 5 lbs.
YE5405—Type A case
List Price **\$15.00**

Type LS-32—Mixing, one or more moving coil microphones or extremely low-impedance pickups to a variable-impedance line. Primary impedances 60/38/30/22/15/10/5.5/2.5 ohms. Secondary impedances 500/333/250/200/125/50 ohms. Type A case. Shpg. wt. 5 lbs.
YE5658
List Price **\$20.00**

Type LS-33—15-watt audio line matching transformer. Input designed for 500/333/250/200/125/50 ohms. Output designed for 500/333/250/200/125/50/30/20/15/10/7.5/5/2.5/1.2 ohms. Type B case. Shpg. wt. 5 lbs.
YE5659
List Price **\$15.00**

Type LS-34—30-watt audio line matching transformer. Input designed for 500/333/250/200/125/50 ohms. Output designed for 500/333/250/200/125/50/30/20/15/10/7.5/5/2.5/1.2 ohms. Type C case. Shpg. wt. 5 lbs.

1.2 ohms. Type C case. Shpg. wt. 5 lbs.
YE5407—
List Price **\$20.00**

Type LS-37—Crystal microphone or pickup or high-mu triode or diode detector to line. Primary in 2 sections; overall impedance 130,000 ohms. Secondary 500/333/250/200/125 or 50 ohms. Type A case. Shpg. wt. 5 lbs.
YE5408—
List Price **\$15.00**

Input Transformers

Type LS-10—Primary will match 500/333/250/200/125 or 50-ohm line as required by carbon, dynamic, ribbon or other microphones, and for low-impedance pickups. Secondary in 2 sections; overall impedance 60,000 ohms. Type A. Shpg. wt. 5 lbs.
YE5401—List Price **\$15.00**

Type LS-12—Primary same as above unit, secondary in 2 sections; overall impedance 120,000 ohms. Type A case. Shpg. wt. 5 lbs.
YE5402—
List Price **\$20.00**

Type LS-14—Primary will match one or more dynamic mikes, or extremely low impedance magnetic or oil-damped pickups, or parallel mixers. Primary impedance 60/38/30/22/15/10/5.5 or 2.5 ohms. Secondary in 2 sections;

overall impedance 60,000 ohms. Type A. Shpg. wt. 5 lbs.
YE5660—List Price **\$20.00**

Low-Level Class "A" Output Transformers

Type LS-50—From a single plate like the 6C5, 6A1, 12A, 30, 31, 25, 27, 37, 55, 66, 85, W.E. 262A to 500/333/250/200/125/50 ohm line. Type A case. Shpg. wt. 5 lbs.
YE5427—List Price **\$15.00**

Type LS-51—From push-pull plates (same tube listing as above) to 500/333/250/200/125/50 ohm line. Shpg. wt. 5 lbs.
YE5428—Type A case
List Price **\$15.00**

Bridging Transformers

Type LS-150—Primary 4000 ohms bridging a 50 to 500-ohm line of any level up to plus 24 db. Secondary 500/333/250/200/125/50 ohms. Type A case. Shpg. wt. 5 lbs.
YE5661—List Price **\$15.00**

Type LS-151—Primary 16,000 ohms bridging a 50 to 500-ohm line of any level up to plus 24 db. Secondary 500/333/250/200/125/50 ohms. Type A case. Shpg. wt. 5 lbs.
YE5662
List Price **\$15.00**

VOLTAGE REGULATORS RADIO AUDIO TRANSFORMERS

AMPERITE Line Voltage Regulators



Designed to maintain a steady output voltage even though input voltage varies over a wide range. Results in uniform performance and minimizes the possibility of overloading of resistors and condensers with subsequent failure. When ordering, specify type tube desired.

Maximum Wattage	Use Amperite	Maximum Wattage	Use Amperite
50	5-A-5	100	9-A-5
70	7-A-5	120	11-A-5

YV19100—List Price, Any Type **\$3.00**
 Socket only for use with the above Amperite tubes. Fits all types.
 YV19101—List Price Each **25¢**

UTC "HIPERM ALLOY" Portable Audio Units



Designed for portable use, these transformers are extremely compact, light weight, and have high fidelity response characteristics. Uniform from 40 to 12,000 c.p.s. Core material, Hiperm Alloy, has high initial permeability. Threaded inserts for mounting. Size: $1\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt. 3 lbs.

YE5459—Variable impedance line to single grid. Primary will match 500, 333, 250, 200, 125 or 50 ohm line. Secondary impedance 90,000 ohms. **List Price \$12.50**
 YE5453—Matching, crystal mike or pick-up to 500, 333, 250, 200, 125 or 50 ohm line. **List Price \$12.50**
 YE5454—Output, from single triode plate (6C5, 56, 55, etc.) to 500, 333, 250, 200, 125 or 50 ohm line. **List Price \$12.50**

Lafayette Voltage Regulating Auto Transformer



250
and
500
Watt
Models

A specially designed auto-transformer for stepping up low line voltages or dropping down high line voltages to correct value—115 volts. Can be used with all types of electrical equipment—prevents premature breakdowns and burnouts. Winding of transformer is tapped for voltages from 80 to 155 volts in steps of 5 volts, thus assuring the proper output voltage irrespective of the input. The above range easily covers even unusually high or low inputs. A selector switch is used to obtain the desired voltage. Features include a built-in precision type 0-150 volt a.c. voltmeter, line fuse, two out-put receptacles on rear of case, six-foot approved rubber cord and plug. An "on-off" toggle switch is mounted on the front panel. All parts used in the construction of this unit are of the highest quality; continuous trouble-free service is assured. The complete assembly is housed in an attractive black, crystalline finished steel case. Dimensions $6\frac{1}{2} \times 7 \times 4\frac{1}{2}$ ". For use on 50 to 60-cycle a.c. lines only. Shipping weight 14 lbs.
 YB1423—250 Watt Model **\$31.90**
 List Price
 YN1424—500 Watt Model **\$37.90**
 List Price

Step-Down Transformers 220 Volts to 110 Volts



Fully shielded with 6 foot heavy lamp cord for 220 volt line, and flush receptacle for 110 volt side. Size $3\frac{1}{2} \times 4 \times 5\frac{1}{4}$ " high, mounting centers $2\frac{1}{2} \times 3\frac{1}{4}$ ". For amplifiers and appliances drawing up to 160 watts. Shpg. wt. 9 lbs.
 YC1568
 List Price **\$5.60**

Same as above, but for amplifiers drawing up to 80 watts. Shpg. wt. 6 lbs. **\$4.10**
 YC1569—List Price
 Heavy duty step-down transformer, similar in appearance to the above. For high powered amplifiers and radio receivers. 250 watt. 220-240 volts to 110-120 volts a.c. Shpg. wt. 10 lbs. **\$7.50**
 YD1422—List Price

RADIART 160 Watt Variable Step-Down Transformer

200-250 V. to 110-120 V.



This transformer has a variable primary. Will handle 160 watts continuously. Comes with 16" of lamp cord with female receptacle for 110-120 volt outlet, and 5 ft. lamp cord with male plug for 200-250 volt input. Primary tapped at 200, 220, 240 and 250 volts. Size $3\frac{3}{4} \times 3\frac{1}{2} \times 4\frac{1}{4}$ ". Mounting centers $1\frac{1}{2} \times 3\frac{1}{4}$ ". Shpg. wt. 9 lbs. **\$7.50**
 YC1970—List Price

Lafayette P. A. Transformers



Employ the finest grade of high permeability core material. Each unit individually checked for frequency characteristics and overall performance.

All feature: uniform response, low wave form distortion, high efficiency and thorough shielding. Case size $2\frac{1}{2} \times 3 \times 3$ "; centers $1\frac{1}{2} \times 2\frac{1}{2}$ ". Class A audio. Single plate to single grid. Ratio 3:1. Shpg. wt. 4 lbs.
 YC2569—List Price **\$5.00**
 500, 200 or 50 ohm line to single grid. Shpg. wt. 3 lbs. **\$7.50**
 YC2572—List Price
 Mixing 500, 200 or 50 ohm line to 500, 200 or 50 ohm line. Shpg. wt. 4 lbs.
 YC2594—List Price **\$6.50**

JEFFERSON Microphone and Line Matching Transformers

Velocity Mike Trans.



Small size ribbon mike transformer with excellent characteristics. Matches ribbon to either 50 or 200 ohm line. Especially suitable for medium priced velocity microphones. $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt. 1 lb. **\$2.50**
 YE5598—List Price

velocity microphones. $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt. 1 lb. **\$2.50**
 YE5598—List Price

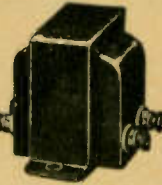
Line Matching Transformers



Tube to line. 200 or 500 ohm line. Size: $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt. 3 lbs. **\$2.50**
 YE5449—No. 467-177
 Line to tube, 200 or 500 ohms to tube. Size $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt. 3 lbs. Type 467-178. **\$2.50**
 YE5450
 List Price

Mike Transformer—2-Button

Has a turn ratio of 1:45. Impedance ratio: 2000. Has flat response curve from 30-7000 cycles. $2\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt. 2 1/2 lbs.
 YC1929
 List Price **\$1.90**



UNCASED

Strap mounting. Single button (200 ohm) mike transformer. Ratio 1:64. Range 30 to 7000 c.p.s. $2 \times 3\frac{1}{4} \times 1\frac{1}{2}$ ". Shpg. wt. 2 lbs. **\$1.30**
 YE5447—No. 467-413
 Same as above, double button. Type 467-414. **\$1.40**
 YE5448—List Price



New UTC Varitone

A revolutionary audio device which permits full control of audio response. Enables tone correction or emphasis of high or low notes or both. Makes phono and radio reception more pleasant and more lifelike. Suited for adaptation to theatre sound equipment. Will help attenuate "flaws" that cause reverberation. Type VT-1 and VT-2 used in conjunction with a 50,000 ohm potentiometer. Technical details, including all possible tone variations (curves) sent on request. Shpg. wt. each, 2 lbs.



Type VT-1: Designed to work from a single plate or low impedance line or mike to one or two grids. **\$8.50**
 YE5531—List Price
 Type VT-2: For insertion across a 200 or 500 ohm line or across a 5000 to 20,000 ohm plate. **\$6.00**
 YE5532—List Price
 Type VT-3: Connects directly from plate to B plus of first audio triode. No external control used. **\$5.00**
 YE5533—List Price

WESTON Power Level Indicator



Model 301. Bakelite case. Indicates directly the relative strength of a given signal to a standard reference level of 6 milliwatts in a 500 ohm load. Self-contained rectifier type, having a scale reading: -10/0/+6 db. Meter resistance 6000 ohms. Shpg. wt. 2 lbs. **\$20.00**
 YJ10593
 List Price

Thru-test



Line to Voice Coil Transformers
 Strap mounting unit (at left) matches 2/4/8 or 15 ohm voice coil to 250 or 500 ohm line. Color coded leads. Size $2\frac{1}{2} \times 2 \times 2$ ". Shpg. wt. 2 lbs. **\$3.10**
 YE5494
 Special heavy duty matching transformer (at right) has coil wound on $1\frac{1}{2}$ " core of high permeability iron. 500 or 250 ohm line to $1\frac{1}{2} \times 1\frac{1}{2} / 1.5 / 2.2 / 5 / 4 / 6 / 8 / 10 / 15$ ohm voice coil. Upright mounting. Size $3 \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt. 4 lbs. **\$4.90**
 YC1565
 List Price



WESTON A.C. Voltmeter

Model 476. $3\frac{1}{4}$ " diameter. Movable iron type, for a.c. only. Accurate to within 2%. Range 0 to 150 volts; meter sensitivity 105 ohms per volt. Shpg. wt. 2 lbs. **\$11.25**
 YJ10758
 List Price



Modern P.A. MICROPHONES

BRUSH Sound Cell Microphones

Model B2S—2 Cell



Uses two piezo-electric crystals connected in series. Excellent frequency characteristics. Ideal for P.A. and broadcast use. Output level—66 db. High impedance; no input transformer needed. In cast aluminum case with screens finished in satin chrome plate. Size $3\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ ". With 15 feet of cable. Base threaded $\frac{1}{4}$ -27. Shipping weight 2 lbs.

YN13623—List Price... **\$45.00**

As above, with three prong plug and socket. Shpg. wt. 2 lbs.
YN13624—List Price... **\$47.50**

Model BR2S—Globe Type



A high quality two-cell microphone affording 360°, non-directional sound pick-up. For P.A., broadcast and transmission work. Case $2\frac{1}{2}$ " diameter, finished in dull chrome plate. Output level—66 db. Complete with locking type plug and socket connector, for suspension or stand mounting. Wide range frequency response. Shipping weight 2 lbs.

YN13632—List Price... **\$47.50**

Model G2S2P—4 Cell

An all around, general utility mike used extensively in P.A. installations and in broadcast studios. Four sound cells are housed in a woven mesh, corrosion resisting monel metal case $3 \times 1\frac{1}{2} \times 1\frac{1}{4}$ ". Cases fitted with chromium plated brass sockets with screw attachment for connecting to stands; $\frac{1}{4}$ -27 thread. Output level—74 db. High impedance. Wide range, high fidelity frequency response. Shpg. wt. 2 lbs.

YN13635—List Price... **\$65.00**



Model G4S6P—24 Cells

One of the finest microphones available for commercial use. Similar in appearance to the above described model. Uses 24 sound cells housed in a woven mesh monel metal case provided with a screw attachment for stand mounting; $\frac{1}{4}$ -27 thread. Size $4\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{4}$ ". Output level—64 db. Response essentially flat over entire audible range. High impedance. Free from distortion. Can be placed close to sound source without affecting quality of tone. Diagrams and instructions included. Shpg. wt. 2 lbs.

YN13633—List Price... **\$135.00**

Model T2S2P—Pulplt Mike

Uses four sound cells in a cast aluminum case finished in black crackle. Base, $3\frac{1}{2} \times 4$ " rests flat on desk or table. Front of case at a 30° angle with a woven wire mesh screen. Case fitted with compression bushing that clamps cable tightly. Ideal for use in lecterns and pulpits in churches and for similar service. Output level—74 db. high impedance. Wide range response. Shpg. wt. 2 lbs.

YN13634—List Price... **\$65.00**



Model T2S4P—Stage Mike

Uses 8 sound cells in a case identical with the one described above, but provided with two compression bushings as illustrated. Two or more are usually mounted at foot of stage approximately 10 ft. apart. Two or three can be connected in series. Output level—68 db. Wide frequency range. High impedance. Shpg. wt. 2 lbs.

YN13636—List Price... **\$90.00**



Lafayette P.A. Velocity Microphones



Designed for P.A. use where high quality speech or music is desired. Feature new triple shielding, eliminating any possible source of hum pickup. Supplied with shock absorber coupling. Frequency response flat within ± 2 db from 40 to 10,000 c.p.s. Output level—64 db (open line). All furnished with 12 feet of special flexible rubber covered cable. Shpg. wt. 8 lbs.

YN13571—50 ohms impedance
YN13625—200 ohms impedance
YN13572—High impedance
List Price Each, Any Type... **\$39.90**

For small or average P.A. installations where wide range response is not required. Frequency characteristics not quite as good as those listed above. Output level—64 db (open line). Supplied with 12 ft. of cable. Shpg. wt. 8 lbs.

YN13573—50 ohms impedance
YN13626—200 ohms impedance
YN13627—High impedance
List Price Each, Any Type... **\$29.90**

UNIVERSAL Velocity Mikes



Newly developed velocity microphones incorporating many distinctive construction features in addition to fine electrical characteristics. Are compact, measuring only $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ". Unit held in a "V" assembly that allows swinging of head to any desired angle. Assembly beautifully finished in black enamel and artistic chrome plate. Mounting fixture threaded for $\frac{1}{4}$ -27 stands. Not affected by temperature or humidity. Response practically flat from

40 to 10,000 c.p.s. Output level—68 db. Can be used at a distance from main amplifier. With 5 inches of cable. Shipping weight 8 lbs.
YN13637—200 ohms impedance
YN13638—High impedance
List Price, Either Type... **\$22.50**
YN13624—Plug-in type stand coupling. \$2.00
List Price... \$2.00

UNIVERSAL Carbon Mikes Model "X"



Available in single or double button models, 200 ohms per button. Duraluminum diaphragms, pure gold contacts. Case finished in chrome plate. Response from 100 to over 4000 c.p.s. Shpg. wt. 3 lbs.

YN13412—Single button... **\$7.50**
List Price...
YN13413—Double button... **\$10.00**
List Price...

"Handi-Mike"



Designed for use with portable P.A. systems and other equipment. Gold contact faces. On-off switch in handle. Is 6" long; head diameter $2\frac{1}{2}$ ". Has "hang-up" eye. Excellent response. Complete with 3 ft. flexible cable. Shpg. wt. 2 lbs.

YN13409—Single button
"Handi-Mike"... **\$10.00**
List Price...
YN13410—Double button
"Handi-Mike"... **\$15.00**
List Price...

Phone Box



Especially designed for all types of call systems used in restaurants, stock rooms, offices, etc. For use with Model "X" mike listed above, $3\frac{1}{2} \times 5 \times 2$ ". Engraved panel provided with "press-to-talk" button, a green "OK" signal and a red "in use" signal. Shpg. wt. 5 lbs.

YN13451—Single button
Microphone box... **\$10.00**
List Price...
YN13452—Double button... **\$12.00**
List Price...

AMPERITE Velocity Microphones

A full line of velocity microphones for every purpose. All feature new triple shielding that eliminates every possible source of hum. Use super-flux nickel aluminum magnets—the finest available. Complete instructions and diagrams furnished with each unit. All with $\frac{1}{4}$ -27 threaded fitting.



Model RB-H

High impedance type. This model can be used with cable lengths up to 150 feet without any appreciable power loss and without trouble from feed-back. Output level—68 db, open line. Frequency range ± 2 db from 40 to 10,000 c.p.s. Supplied with shock absorber and 25 feet of cable. Shpg. wt. 8 lbs.

YN13565—List Price... **\$42.00**

Model RB-BH

Similar to the above, but beam type (directional). Shpg. wt. 8 lbs.

YN13612—List Price... **\$42.00**

Model RB-M

Recommended for speech and music. Response ± 2 db from 40 to 10,000 c.p.s. Output level—64 db, open line. With 8 feet of special flexible rubber covered cable. Shpg. wt. 8 lbs.

YN13613—50 ohms impedance
YN13614—200 ohms impedance
List Price, Either Type... **\$42.00**

Model RB-B

Similar to the above, but beam type (directional). With 8 foot cable. Shpg. wt. 8 lbs.

YN13615—50 ohms impedance
YN13616—200 ohms impedance
List Price, Either Type... **\$42.00**

Model RB-S

Especially designed for speech; can also be used for music. Output—68 db, open line. With 8 feet of rubber covered cable. Shpg. wt. 8 lbs.

YN13470—50 ohms impedance
YN13475—200 ohms impedance
List Price, Either Type... **\$32.00**

Model RS-H

Similar to the above, but high impedance. With 8 ft. of cable. Shpg. wt. 8 lbs.

YN13598—List Price... **\$32.00**

Professional Model SR-80

One of the finest velocity microphones available. Designed for use wherever excellent quality is required. Response uniform within ± 1 db over the entire audible range. Free from background noises; no frequency discrimination with angle from center. In rugged bronze and steel case. Output level—88 db (at 200 ohms). Complete with 25 feet of special cable. Shipping weight 10 lbs.



YN13468—50 ohms impedance
YN13475—200 ohms impedance
YN13463—High impedance (SR-80H)
List Price Each, Any Type... **\$80.00**

Junior Velocity Microphone

Approximately the size of a matchbox; only $1\frac{1}{2} \times 1\frac{1}{2} \times 1$ ". Sensitivity equal to the large velocity mikes. Response range from 60 to 7500 c.p.s. Transformer in case. Output level—68 db (open line). Can be used in any position. Shoulder strap furnished. Shpg. wt. 3 lbs.



YN13568—200 ohms impedance. With 15 ft. of rubber covered cable.
YN13569—High impedance. With 25 ft. of rubber covered cable.
List Price, Either Type... **\$30.00**

Modern P.A. MICROPHONES

PIEZO ASTATIC "MIKES"



Model D-2

Double diaphragm type crystal unit. Output level - 64 db. Response flat within 2 db from 50 to 6000 c.p.s. Extremely compact, only 2 1/2" diameter, 3/4" thick. All chrome plated finish. Stand fitting threaded for 3/8" male pipe. Finished with adapters for 1/4" and 3/8" pipe thread. Complete with 6 ft. of special cable. Shipping weight 2 lbs.

YM13620 — **\$25.00**
List Price
Model D-2H—Similar to above, but hand type. Shpg. wt. 2 lbs.
YM13621 — **\$27.50**
List Price
Model D-2HS—Hand type with convenient "push-to-talk" switch.
YM13622 — **\$28.00**
List Price



Model D-104

Single diaphragm type. High impedance; requires no matching transformer. Output level - 64 db. Excellent response characteristics.

Case is 3" in diameter and 1" thick. Finished in chrome plate. Diaphragm protected by screen. Complete with 6 ft. of cable. Fitting has 3/8"-27 thread. Shpg. wt. 2 lbs.
YM13363 — **\$22.50**
List Price
Model D104H—Same as the above, but hand type. Shpg. wt. 2 lbs.
YM13375 — **\$25.00**
List Price
Model D-104HS—Hand type, as above, with "push-to-talk" switch in handle. Shpg. wt. 2 lbs.
YM13378 — **\$25.50**
List Price

SHURE BROS. "MIKES"

Diaphragm Type Model 70H



Improved type crystal head with close fitting ring and 4 "quickway" hooks. Response from 30 to 10,000 c.p.s. Output level - 60 db. Supplied with 7 ft. of cable. Shpg. wt. 5 lbs.
YM13473 — **\$22.50**
List Price
 Same as above, but with shielded plug and receptacle for attachment.
YM13474 — **\$27.50**
List Price
 Same as 70H, but for push-pull input. Double unit, high impedance.
YM13475 — **\$22.50**
List Price

Crystal Hand Mike—71AS



Ideal for all types of portable P.A. equipment. Can be used in any position. "Close talking" type. High impedance. Has "push-to-talk" switch in handle. Excellent response; output level - 60 db. Chrome case. With 7 ft. of cable. Shpg. wt. 8 lbs.
YM13476 — **\$26.50**
List Price
YM13477—Model 71A. Same as above, less switch.
YM13478 — **\$25.00**
List Price

MIKE Control Box



For use with diaphragm and sound cell crystal mikes. For stand mounting. Provides volume control directly at mike. Consists of a step-control and on-off switch in Bakelite case 4x2x2". With 25 ft. cable. Fittings threaded for 3/8"-27 units.
YM13628 — **\$12.50**
List Price
 As above, with 50 ft. cable.
YM13629 — **\$15.00**
List Price
 Similar to V11A, but with receptacle for plug-in conn. 25 ft. of cable.
YM13630 — **\$12.50**
List Price
 As above, with 50 ft. cable.
YM13631 — **\$15.00**
List Price

"Spheroid" Crystal Mike Model 74B



Combines high output level with high fidelity non-directional wave response. Employs a newly developed "Grafoil" bimorph crystal element driven by a specially shaped small dural diaphragm. Response is within 5 db from 40 to 10,000 c.p.s. Output level approximately - 55 db, with 360° pick-up. Only 2 1/4" in diameter. Finished in rich rubber black with chromium rings. Furnished with plug-in base and stand receptacle. Shpg. wt. 1 1/2 lbs.
YM13610 — **\$37.50**
List Price

Model 75A

Similar to the model 74B described above, but without plug and stand adapter. Furnished with 25 feet of special cable. Shpg. wt. 2 lbs.
YM13604 — **\$32.00**
List Price

Model 73A Lapel Mike



Extremely compact. Ideal for public speakers and lecturers. Output level - 65 db. Free from internal and background noises. 2" diameter, 3/8" thick. Crystal element. With lapel clip and 25 feet of cable. Shpg. wt. 1/2 lb.
YM13458 — **\$25.00**
List Price

60C Contact Mike



For sound pick-up from vibrating bodies. Ideal for reproducing music from guitars, violins, etc. Crystal element, high impedance. Also useful in detection work. Practically no direct sound pick-up. 1 1/2" long, 1" wide, 3/4" high. Chrome plated. Complete with 7 ft. of cable. Shipping weight 1 lb.
YM13388 — **\$22.50**
List Price

Duo-Diaphragm Type Model K-2



Arranged so that the forces of two opposing diaphragms are applied to one crystal simultaneously. Increases efficiency and fidelity characteristics. Substantially flat from 20 to 6,000 c.p.s., with a rise of approximately 10 db at 10,000 c.p.s. Output level - 75 db. With 8 ft. of cable. 3/8"-27 thread. Shipping weight 2 lbs.

YM13418 — **\$37.50**
List Price

Special Contact Mike



A supersensitive direct contact mike not dependent upon air as the transmitting medium. Ideal for detection work or to reproduce music from stringed instruments. Output level - 50 db. 2 1/4" diam., 3/4" thick. Chrome finish. Supplied with 6 ft. flexible connecting cord. Shipping weight 1 lb.
YM13416 — **\$22.50**
List Price

Model L-1 Lapel Mike



Operates on similar principle to the model K-2. Extremely sensitive; ideal for public speakers, lecturers, etc. Output level - 75 db. Approximately 1 1/4" diameter, 1/2" thick. Has dull black finish. Furnished with clip and 25 feet of cable. Shpg. wt. 1 lb.
YM13429 — **\$30.00**
List Price

Special Cardiophone Mike



A precision instrument of wide frequency response for determining heart and lung conditions. Tremendous improvement over old-fashioned stethoscope—and will facilitate more rapid and accurate diagnosis. The case is 3" in dia. and 1" thick. Chrome finish. High impedance, no input transformer required. Output level - 65 db. With 8 ft. cable, and "push to listen" switch. Shpg. wt. 2 lbs.
YM13417 — **\$25.00**
List Price

Lafayette Carbon Mike



A very efficient two-button carbon microphone which will give entirely satisfactory service. Frequency response 70 to 4000 cycles. 200 ohms per button. Chromium plated brass frame. Alloy diaphragm with 24K gold contact points. 8" diameter. 2" thick. Shipping weight 4 lbs.

YM13420 — **\$11.50**
List Price

Ear Phone Cushions

Made of sponge rubber.
YM13940—List, per Pair **50¢**

Switch-Swivel



For use with crystal and velocity mikes. Swivel top. "On-off" switch. Chrome finish. 3/4"-27 threads.
YM13385 — **\$3.50**
List Price

HEARING AID ACCESSORIES

TRIMM Single Unit



Headphone
 A single featherweight earphone provided with an adjustable spring steel headband. Ideal for all types of hearing aid equipment in theatres, etc. Impedance 2500 ohms. Shpg. wt. 2 lbs.

YM13926 — **\$6.25**
List Price

TRIMM Lorgnette Phone



Comprises a single unit featherweight phone mounted on a lorgnette handle. Used for group installations in churches, theatres, lodges, etc. Impedance 2500 ohms; other impedances on order at no extra charge. Shpg. wt. 4 lbs.

YM13934—14" handle **\$6.75**
List Price
YM13935—22" handle **\$7.30**
List Price

Outlet Box for Phones



Designed for group installations in theatres, assembly halls, etc. Consists of a box 3x2x1", containing volume control and headphone jack. Brown finish. Box has back. 2 sizes; depending on number of boxes used.
YM13387—With 5000 ohm control. Maximum number of boxes—25. Shpg. wt. 3 lbs.
YM13389—With 50,000 ohm control. Max. number of boxes—100. Shpg. wt. 3 lbs.
List Price, Either Type **\$3.75**

Truestest

TWO BUTTON Carbon Microphone



Large, 2-button mike, 3 1/4" diameter by 2 1/4" thick. Fine response from 60 to over 4000 c.p.s. Dural diaphragm, pure gold (24K) contacts. Shpg. wt. 4 lbs.

YM13384 — **\$7.50**
List Price

Double Phone Plug



Will take one or two phone or speaker cords or a combination of both. Coated Amerloy cap. Metal nickel plated. Has tie loop.
YP14971—Red **YP14973**—Green
YP14972—Blue **YP14974**—Black
List Price **50¢**
Each

Microphone Cables & Accessories

Trustest Shielded Carbon Mike Cable



Three color-coded conductors in tightly woven tinned copper shield. 1/4" outer covering of high-percentage rubber. Shpg. wt. 10 lbs. per 100 feet. Wire is stranded.

- List Prices**
- YQ16145—Per Foot **8c**
 - YQ16204—12-Foot Roll 90c
 - YQ16205—25-Foot Roll \$1.70
 - YQ16206—50-Foot Roll 3.20
 - YQ16207—100-Foot Roll 6.20

Crystal & Hi-Impedance Velocity Mike Cable



Flexible—Single Conductor

A flexible stranded tinned copper wire covered with a cotton wrap and lacquered braid shielded with a fine tinned copper braid. High-grade rubber overall. Shpg. wt. 10 lbs. per 100 feet.

- List Prices**
- YY20842—Per Foot **6c**
 - YQ16333—50-Foot Roll \$2.60
 - YQ16334—100-Foot Roll 4.80

Ready-To-Use Carbon Microphone Cable



Stranded Wire

Shielded 3-conductor, cotton-covered cable. Ends provided with lugs for easy connection. Shpg. wt. 2 1/2 lbs. per 50 feet.

- List Prices**
- YQ16135—6 Feet for... **70c**
 - YQ16139—12-Foot Roll \$1.20
 - YQ16140—25-Foot Roll 2.30
 - YQ16141—50-Foot Roll 3.80

Low-Imped. Trustest Velocity Mike Cable



Consists of two conductors, color-coded in a closely woven tinned copper shielding with outer covering of rubber. Ideal for outdoor use. Abrasion proof. Shpg. wt. 9 lbs. per 100 feet.

- List Prices**
- YQ16079—Per Foot **8c**
 - YQ16201—50-Foot Roll \$3.20
 - YQ16202—100-Foot Roll 6.20

Three-Way Connectors For Carbon Mikes



For quickly connecting double button mike or any three wire circuit. Has a molded Bakelite handle. Contacts are solid brass, tinned for easy soldering. Shpg. wt. 1/2 lb.

- YM13521—List Price **75c**

Three-Way Jack



This unit is constructed of brass, heavily nickel-plated. For use with above plug for any circuit having three wires.

- YM13522—List Price **50c**

Three-Way Connector



For use with the plug shown above. This connector is housed in a Bakelite grip which insulates the tinned terminals. Metal parts are of brass, nickel-plated.

- YM13523—List Price **65c**

Microphone Springs



Tempered steel, with loop ends.

- YM13402—List Price, Set of 8 **30c**



Granules For Carbon Mikes

Sufficient to refill one 2-button microphone.—

- YM13481—List Price per Capsule **80c**

AMPHENOL Cable Connectors & Shields



Unshielded connectors, male and female, shown at left. Covered by a fitted steel cap, thus minimizing breakage. Cover is black japanned to match socket.

With rubber grommet. Diameter 1 1/4", length 1 1/8". Unbreakable cable terminal. Will withstand hard service.

Male Connector		Female Connector	
Stock No.	Prongs	Stock No.	Prongs
YL11471	4	YL11475	4
YL11472	5	YL11476	5
YL11473	6	YL11477	6
YL11474	7 small	YL11478	7 small
List Price	25c	List Price	25c
Any Above Types		Any Above Types	
25c		25c	

YL11479—Cable connector covers illustrated above at right. Consist of steel male and female sections. **List Price, per Set, Covers Only 25c**

Mike Stand Reducers & Swivels



List Price per Unit **\$1.00**

Swivels			Reducers		
Stock No.	Top Male	Bot. Fem.	Stock No.	Top Male	Bot. Fem.
YM13343	1/2" pipe	3/4"-27	YM13347	1/2" pipe	3/4"-27
YM13344	3/8" pipe	3/4"-27	YM13348	1/2" pipe	3/4"-27
YM13345	3/8"-27	3/4"-27	YM13349	1/2" pipe	3/4"-27
YM13346	3/8"-27	3/4"-27	YM13350	3/8"-27	3/4"-27
			YM13351	3/8"-27	3/4"-27

Desk Stands For Crystal & Velocity Mikes



Stand shown at left has ball and socket joint which permits the microphone to be tilted at any angle. Stands 9" high, weighted base is 6 3/4" in diameter, and stem is 3/4" diameter. Thread 3/8"-27 to 1/2" pipe. Highly polished chromium plate. Shpg. wt. 5 lbs.

- YM13526—List Price, Stand Only **\$6.50**

Stand For Velocity Microphones

Especially designed for velocity microphones. Heavily weighted base, 8" in diameter. Finished in black crinkle lacquer. With adapter threaded 3/4"-27 and 1/2" pipe thread. Height of stand 3". Shpg. wt. 10 lbs.

- YM13442—(Not Illustrated) **List Price \$6.00**

YAXLEY All-Shielded Extension Jack & Plug

For Crystal & High-Impedance Velocity Mike Cables

Provides completely shielded connection for any shielded single conductor cable. Brass shells—nickel finish. Provides cable "strain relief." Diameter 1 1/4", overall length when connected 5 1/2".

- YF6346—Plug **\$2.25**
 YF6345—Receptacle **\$2.50**
List Price

2-Wire Heavy-Duty Shielded Jack & Plug



For Crystal & High-Impedance Velocity Mike Cables

A heavy-duty two-wire plug and jack made of molded Bakelite with heavily armored metal caps. Very sturdy made. They are ideal for use with portable P.A. systems. Finished in black crackle with cadmium plated cable grips. Plug measures overall 2 1/2" long, 1 1/4" wide, 3/4" deep. Receptacle is overall, 2 1/4" long, width and depth as for plug. Shpg. wt. per set, 1 lb.

- YL12400—Plug **61c**
 YL12412—Receptacle **67c**
List Price Each

Desk Stands for Carbon Microphones



Type A: Low priced, yet high quality. Has 5" octagon shaped ring. Provided with 8 springs. Ring removable. Height 9". Finished in wrinkle black enamel. 7 1/2" pipe thread. Shpg. wt. 10 lbs.

- YM13540—List Price **\$2.00**



Ring only, with adapter for suspension mounting. Complete with 8 springs.

- YM13541—List Price **\$1.50**

Type B

Type A

Type B: De Luxe Stand. Height 13"; 6" removable ring. Complete with 8 springs. Finished in black wrinkle enamel. 1/2" pipe extension. Shpg. wt. 15 lbs.

- YM13542—List Price, Special **\$3.00**

Ring only for above. With 8 springs and suspension adapter. Shpg. wt. 3 lbs.

- YM13543—List Price **\$2.00**

Suspension Adapter only. For above Microphone Rings.

- YM13544—For Type A Ring. List Price Each 40c

- YM13545—For Type B Ring. List Price Each 50c

Banquet-Type Stands



Solidly cast ring—removable for suspension mounting; diam. 6". Overall height 13 1/2". Base 5 1/4" diam. Satin nickel finish. Shpg. weight, 5 lbs.

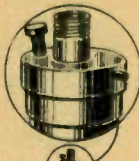
- YM13427—List Price **\$6.50**



Solidly cast ring—6" diam. Base is spun metal—5 1/4" diam. and filled with cast metal. Overall height—11". Ring is removable. Chromium finish. Knurled grommet in base. Shpg. wt. 3 lbs.

- YM13381—List Price **\$4.80**

Floor Stands for Velocity and Crystal Microphones



"Push Button" type at left permits quick adjustment of height. Thumb-screw for locking. Will not tip over. Deep bronze finish. Height variable from 4 feet to over 6 feet. Standard 1/2" pipe thread. Shpg. wt. 42 lbs.

- YM13574—List Price **\$35.90**

Stand on right extends from 37-67".

10" diameter base. Chrome finish.

Standard 3/4" pipe male swivel on

3/4"-27 male thread. Shpg. wt. 14 lbs.

- YM13528—List Price **\$13.70**

Similar to stand on right but with

7 1/2" base. Adjustable from 42" to

74" Standard 3/8" pipe male swivel on

3/4"-27 male thread. Polished chrome. Shpg. wt. 14 lbs.

- YM13576—List Price **\$9.90**

As shown at right but with very

heavy 10" diameter base. Adjustable

46" to 77" in height. Heavy chrome

plated. Shpg. wt. 20 lbs.

- YM13577—List Price **\$18.50**

Telescope Stand. 32" to 66".

Base diameter 7 1/2". Shpg. wt. 10 lbs.

Standard 1/2" pipe male swivel on 3/4"-27 thread.

- YM13568—Chrome List Price **\$10.50**



Public Address Units and Trumpets

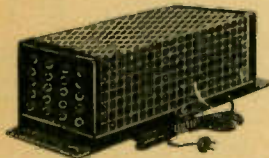


Lafayette Vari-Acoustic Weatherproof Trumpet



Permits adjustment of low-frequency response by control of back-pressure. Takes any dynamic speaker up to 12" diameter (Rola G-12, Jensen A-12, etc.). Built throughout of weatherproof material. Finished in bright aluminum. Speaker opening, 13x13x10 1/4"; opening at bell, 34x23"; length, 47". With front cover and mounting brackets. Shpg. wt. 20 lbs.
YY20048—List Price \$31.90

Lafayette Special Field Supply for 6-Volt Units



This long-life field supply will furnish field current for from one to three 6-volt fields from any 110-volt, 60-cycle, a.c. line. Output is 6 volts at 3.5 amperes d.c. Is well filtered and hum-free. Measures 12" wide, 6" deep, 4 1/2" high. Steel chassis finished in rubber black, with screen cover. Terminal output. With cord and plug. Shpg. wt. 11 lbs.
YY19309—List Price \$29.00



Lafayette New! Improved! Electro-Dynamic Driver Unit

The latest development in the field. Far ahead of all other speaker driver units and quality. The diaphragm is spun from sheets of the finest grade of duralumin. Sound output is exceptionally high in relation to the electrical input—the result of careful placement of the voice coil in the magnetic field and a powerful field flux. Voice coil impedance is 15 ohms at 1000 cycles. 20 watts continuous operating capacity, 25 watts peak. 6 to 8-volt field draws 1.5 amperes at 6 volts. Will withstand hard usage and all weather conditions. Made thread (1 3/8"—18) fits all trumpets. Shpg. wt. 13 lbs.
YW19398—List Price \$25.00

Lafayette 6-Ft. Trumpet

Threaded for Unit

100% Weather-Proof
 2 1/2-Ft. Detachable Tone Arm



This remarkably low-priced exponential trumpet is guaranteed to be 100% weather-proof in all climates. It is shipped partly knocked-down and can be easily assembled with nothing more than a No. 6 socket-wrench or pliers. Has a 2 1/2-ft. detachable tone arm with threaded casting for the driver unit. Finished in brilliant aluminum color. Measures 6 ft. long; square bell, 30x30". Shpg. wt. 24 lbs.
YY20068—Model KD-6—List Price \$25.00

Lafayette Trumpets



Completely Assembled
 A new 100% weatherproof trumpet guaranteed for two years, misuse excepted. Made of a special all-weather, non-resonant material and edged with solid brass welding. Detachable aluminum tone arm threaded for unit. Square bells 30x30". Finished in bright aluminum.
 6 ft. long. Shpg. wt. 25 lbs.
YY20047—List Price \$42.50
 54" long. Shpg. wt. 19 lbs.
YY20048—List Price \$35.00
 43" long. Shpg. wt. 16 lbs.
YY20049—List Price \$30.00
 Model L-43. List Price \$30.00

Lafayette All-Metal All Weather-Proof Trumpet with Flange Mounting



Takes all dynamics up to 12" diameter. Cloth cover over Bell.
 Built to U.S. Navy Spec.
 Built to last a life-time to U.S. Navy specifications. All-metal exterior, silver finished. Weather and rust-proof. Celotex lining. 4 feet long, bell 32" by 26". Speaker housing 13x13x10 1/4". Shpg. wt. 28 lbs.
YY20066—List Price \$59.00

RACON Cone Units and Trumpets

RACON "Master" Dynamic Horn Unit



These powerful dynamic units are standard equipment for all quality indoor and outdoor installations and are designed especially for use with trumpets. The "Master" is especially adaptable for installations where heavier units are not required. Requires 6 to 8 volts field excitation, and consumes 1.1 amperes at 6 volts. Voice coil impedance 15 ohms at 1000 cycles. Handles 20 watts continuously, 50 watts peak. Supplied less coupling transformer. Shpg. wt. 18 lbs.
YY19266—List Price \$44.00

RACON "Super-Giant" Unit

Particularly adapted for theatre and auditorium where extremely fine quality is desired. Voice coil impedance 15 ohms at 1000 cycles. Field consumption 1.2 amperes at 6 volts. Handles 25 watts continuously, peak capacity 50 watts. Supplied less coupling transformer. Shpg. wt. 20 lbs.
YY19754—List Price \$66.00



RACON 3 1/2 Foot Indoor Trumpets

Non-Resonant Construction



Racon reproducers are constructed of the finest hardened impregnated fabric. They are absolutely non-resonant, are capable of flawless reproduction, and are famous for their long-life. They are female-threaded to take the above or similar units, and can be used for theatre, auditorium, etc.
Regular Model—This trumpet is finished with a rolled metal beaded edge, metal ferrule and suspension ring. It is equipped with a female thread for 1 3/4"-18" threaded unit. It is 3 1/2 feet in length and the diameter of its bell is 22".
YY19790—For indoor use only. Shpg. wt. 10 lbs. List Price \$22.00
De Luxe Model—This trumpet is equipped with a reinforced cast aluminum arm, thus increasing the acoustic efficiency as well as the mechanical strength of the throat. Otherwise, similar specifications to above trumpet. Shpg. wt. 17 lbs.
YY19789—For indoor or temporary outdoor use. List Price \$27.50

W.D. Wright De Coster SPEAKERS

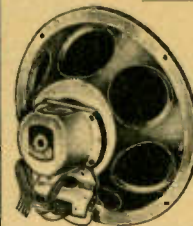
Para-Curve 12" Dynamic Speaker Model 1750

New and novel cone construction eliminates sub-harmonics and assists in eliminating h.f. cancellation, thus extending range of speaker further into the higher frequencies. Voice coil impedance, 2.6 ohms at 400 cycles; universal output transformer; field resistance, 2500 ohms, dissipates 9 to 16 watts maximum.
YY19395—Shpg. wt. 17 lbs. List Price \$17.50



D.C. Speaker, Model 790

Large 10" d.c. speaker. Employs a universal output transformer. Voice coil impedance, 5.05 ohms at 400 cycles, operating capacity 9 watts maximum. Field coil resistance 2500 ohms, dissipates 6 watts minimum, 12 watts maximum. Cone 8"; outside diameter of cone bracket 10 1/4", depth 5 1/4". Equipped with hum-bucking coil. Bright cadmium finish. Cone is concentrically ridged.
YY19158—Shpg. wt. 6 lbs. List Price \$7.90



Model 630 D.C. Speaker

A high-quality loud speaker similar to above, but 8" in diameter. Voice coil impedance 3.58 ohms at 400 cycles, handles 8 wts. continuously. Field coil resistance, 2500 ohms, dissipates 5 watts minimum, 9 watts maximum. Has a universal transformer and hum-bucking winding. Finished in bright cadmium plate. Cone bracket 8 1/2" diameter; depth 4". Cone is ridged.
YY19160—List Price \$6.30



A. C. Field Supply Model 470

Operates on 110 volts, 25, 50 or 60 cycles a.c. Delivers 100 ma. at 140 volts d.c. Ideal for above speakers. Uses 25Z5 rectifier. 8 1/2"x2 1/4"x1". Shpg. wt. 4 lbs.
YY19162—Less tube List Price \$4.70
25Z5 Rectifier. List Price .99c

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New York — WAlker 5-8883
Atlanta — WAlnut 5140-1

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POSTAGE CHARGES are based on weight of parcel and distance from shipper's city to consignee's address. The rates are determined by zones. Each zone comprises a certain mileage radius from the point of shipment. You can easily estimate the postage costs from our nearest warehouse to your town from the following chart. If in doubt about the zone you are in from our nearest warehouse, consult your local postmaster.

PARCEL POST RATES FOR VARIOUS ZONES

Parcels up to 8 oz. may be shipped anywhere in U.S.A. for 1½c for 2 oz.
RATES FOR PARCELS OVER 8 OZ. AS FOLLOWS:

ZONE NUMBER:	1	2	3	4	5	6	7	8
Distance in Miles from Shipping Pt.	Not over 150 miles	Not over 150 miles	150 to 300 miles	300 to 600 mi.	600 to 1000 mi.	1000 to 1400 mi.	1400 to 1800 mi.	Over 1800 mi.
Cost for 9 Oz. to 1 Lb.	8c	8c	9c	10c	11c	12c	14c	15c
Cost for Ea. Add'l Lb. or Fraction	1.1c	1.1c	2c	3.5c	5.3c	7c	9c	11c

RATES SUBJECT TO CHANGE BY U. S. POSTAL AUTHORITIES

Parcel post shipments to all zones must not exceed 70 pounds. The limit of size on all parcel post packages is one hundred inches in length and girth combined. Example: a package 35 inches long, 10 inches wide and 5 inches high, measures 65 inches in length and girth combined. (Length 35 inches, plus 2 x 10 inches width, plus 2 x 5 inches height, equals 65 inches.)

INSURANCE

All parcel post packages are covered against damage or loss. Insurance costs and postage should be added to the amount sent. Charges are as follows:—

When value of parcel is up to \$5.00	Charge is 5c
" " " " " betw'n 5.00 & \$25.00	" " 10c
" " " " " 25.00 & 50.00	" " 15c
" " " " " 50.00 & 100.00	" " 25c

After \$100.00 value the charge for each \$50.00 additional is 5 cents extra.

If you are doubtful as to the correct amount do not hesitate to send us sufficient postage. WE GUARANTEE to refund any excess remittance.

C. O. D. SHIPMENTS

Transportation charges on C. O. D. parcels are slightly higher than those fully prepaid. C. O. D. charges in addition to the regular postage costs outlined are as follows including insurance:—

When value of parcel is up to \$5.00	extra charge is 12c
When value of parcel is between \$ 5 & \$ 25,	extra charge is 17c
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When value of parcel is between 100 & 150,	extra charge is 40c
When value of parcel is between 150 & 200,	extra charge is 45c

For each \$50.00 value above \$200.00 the charge is 5c more (including insurance). The Post Office also charges an extra small money order fee on each C.O.D. parcel.

EXPRESS CHARGES, are also determined by weight of shipment and distance of consignee from shipper. The following chart enables you to estimate express charges.

Maximum Distance in miles.	50 MI.	150 MI.	300 MI.	300 MI.	750 MI.	1000 MI.	1500 MI.	2000 MI.
Post up to 5 lbs.	\$0.39	\$0.41	\$0.43	\$0.45	\$0.52	\$0.56	\$0.66	\$0.76
" 10 lbs.	.43	.48	.56	.62	.69	.76	.93	1.16
" 15 lbs.	.47	.54	.66	.75	.86	.97	1.29	1.57
" 20 lbs.	.51	.61	.77	.89	1.03	1.18	1.61	1.98
" 25 lbs.	.55	.67	.87	1.02	1.20	1.35	1.93	2.39
" 35 lbs.	.63	.80	1.04	1.29	1.54	1.79	2.56	3.20
" 45 lbs.	.71	.93	1.29	1.56	1.88	2.21	3.19	4.02
" 55 lbs.	.79	1.06	1.50	1.83	2.22	2.62	3.82	4.83
" 75 lbs.	.95	1.32	1.92	2.37	2.90	3.44	5.08	6.46
" 95 lbs.	1.11	1.58	2.34	2.91	3.58	4.26	6.33	8.09
For Ea. 100 lbs.	1.15	1.65	2.45	3.05	3.75	4.47	6.65	8.50

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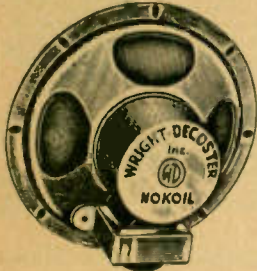
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Requires no field current because it has no field coil, yet equal to and cheaper than electro units of the same size and quality. Ideally suited for use in all types of call systems and multi-speaker installations. Eliminates the need for additional wiring for field supply as well as additional apparatus. Furnished with universal transformer to match all tubes, single or p.p. Transformers for 250 and 500-ohm lines available on order.

YW19140—Model 700, 6" type. Outside diameter of cone bracket 6 1/4", depth 2 3/4". Shpg. wt. 5 lbs. **List Price \$7.00**

Outside diameter of cone bracket 6 1/4", depth 2 3/4". Shpg. wt. 5 lbs. **List Price \$7.60**

YW19141—Model 760, 8" type. 8 1/4", depth 3 1/4". Shipping weight 5 lbs. **List Price \$7.60**

WRIGHT de COSTER "Hyflux" Magnetics

Built to exacting requirements to provide the maximum in frequency range, tone quality and performance. An excellent speaker for use with "talk-back" call and inter-communication systems, as well as for hotel and school installations. Ideal for these systems because of low initial cost, requires no field excitation apparatus or energy, or additional wiring for field supply circuit. Technical features include a one-piece seamless cone, metal dust-proof covers over movements, easily accessible adjustment screw for instantaneous screw-driver adjustment, Bakelite coil form and plated metal frame.



High Impedance—10,000 Ohms
6" and 8" Models
YW19142—6" cone **\$4.00**
List Price
YW19143—8" cone **\$4.50**
List Price

Medium Impedance—7000 Ohms
YW19144—6" cone **\$4.00**
List Price
YW19145—8" cone **\$4.50**
List Price

Wright de Coster "Nokoil" and "Hyflux" speakers are available with special impedances. Prices quoted on request.

ROLA G-12 High-Fidelity Speakers



For A. C. and D. C. Operation

Two speakers designed to meet the demand for high-fidelity reproduction. Both use a full 12" cone. Essentially flat response 50-8000 cycles with less than 10 db variation. Voice coil 8 ohms. Input transformer for both a.c. and d.c. models for 250 and 500-ohm lines. Other inputs at slight additional cost. 12 1/8" wide, 12 1/2" high, 7 3/8" deep. Shpg. wt. 26 lbs.

D.C. Models
All fields take d.c. voltages, as follows: 675-ohm for 110 volts, 1000-ohm for 140 volts, 2500-ohm for 225 volts, 2-ohm for 6 volts.
Stock Field Stock Field
No. Ohms No. Ohms
YW19240 675 **YW19243** 1000
YW19241 2500 **YW19244** 2
List Price \$25.00
Any of Above

A.C. Model
As above, but with special Lafayette exciter unit using 83 rectifier tube. For 110-volt, 60 cycle a.c. operation. Shpg. wt. 30 lbs.
YW19301—Leas tube. **List Price \$29.00**
83-type tube. **List Price \$39**

NEW! JENSEN 18" High-Fidelity Electro-Dynamic Speakers



The finest and most advanced reproducer today. Especially suited for theatres, music halls, etc., where the utmost in quality reproduction is absolutely essential. It is capable of handling tremendous power inputs—20 TO 25 WATTS CONTINUOUSLY WITHOUT SACRIFICE IN QUALITY—and so is ideal for conditions where high power with few speakers is desired. High-frequency range extends to 9000 cycles without noticeable loss in the middle and low registers. Voice coil 8 ohms at 400 cycles. Field coil wattage, 20 minimum, 26 normal, 33 maximum. Employs a radically new cone made up of sections of different materials. Overall dimensions, 18 1/4" high, 10 1/4" deep. **With 500-ohm input.** For 110 volts, 60 cycles a.c. See page 44 for suitable baffles.

YW19357—Model HF-18AC. Shpg. wt. 78 lbs. **\$92.50**
List Price
This new, remarkable speaker is available in low-frequency and high-frequency models, for a.c. and d.c. operation, and for any desired input impedance. Write for full details and prices.

NEW! JENSEN "Q" High-Frequency Dynamics

The finest electro-dynamic "tweeter" model Direct radiator type with curvilinear cone, for use with high-fidelity systems in theatres, broadcasting studios, musical instruments and quality P.A. work. 1200 to 8000 cycles (models up to 18,000 cycles are available). Voice coil 16 ohms at 3000 cycles. **Must be operated from filter.** Handles 5 watts, peak. 10,000-ohm field operates from external field supply. Field wattage, maximum 8, normal 6, minimum 5. Shpg. wt. 7 lbs.

YW19355—Model Q5-A. High-Frequency Dynamic. **\$20.00**
List Price
Model F9 Filter For Above Speaker
Single channel; 500-ohm input impedance. By-passes low-frequencies to one or two i.f. speakers, and high-frequencies to one or two h.f. speakers. Contained in handsome black, crystalline-finished housing.
YW19356—Model F9 Filter. Shpg. wt. 3 lbs. **\$12.00**
List Price

JENSEN "Q" high-frequency speakers are also available with cut-offs up to 18,000 cycles, with a.c. and d.c. fields, and with any desired input impedance. A special model is designed for use with high-quality receivers. Also, special variable filters are available for frequencies up to 18,000 cycles. Write for details.



Lafayette Portable P.A. Speakers



Set of two quality speakers, each mounted as illustrated. Both units combine to form an attractive black fabricoid-covered carrying case shown in insert. Measures overall 19 1/2 x 18 1/2 x 11 1/2" deep. Each speaker is equipped with 50 ft. of rubber-covered cable terminated with a 6-prong rubber-covered plug. Case is reinforced with nicked metal corners. Has leather carrying handle and nicked snap locks.

With LAFAYETTE Speakers Model 1042-PP—With 2 special a.c. speakers described below. Shpg. wt. 53 lbs. **List Price \$71.40**

With ROLA Speakers Model 1041-PP—With 2 ROLA G-12 a.c. speakers described on this page. Shpg. wt. 63 lbs. **List Price \$88.00**

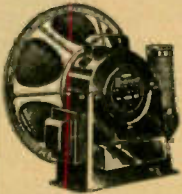
WRIGHT de COSTER Model 2050 Speaker and Trumpet Combination



For the average P.A. installation where cost is the prime factor but quality is still essential. Ideal for the reproduction of voice and music at outdoor gatherings, small auditoriums, hotel banquet halls, etc.

Trumpet is sturdily constructed of wood and Insulite, and finished in attractive silver. Exterior is weatherproofed. Has screen across bell opening. Built-in 6" dynamic speaker. Voice coil impedance 5.2 ohms. Handles 4 to 5 watts continuously. Field wattage 9 to 10, normal. Overall length 27 1/4", bell opening 22 3/4 x 14". **Supplied less voice coil transformer.**
YW19186—Model 2050 with 1000-ohm field.
YW19187—Model 2050 with 2500-ohm field. Shpg. wt. 20 lbs. **\$20.50**
List Price, Either Model
YW19188—Model 2050 with 6 volt field. **List Price \$20.50**

JENSEN High-Fidelity Speakers For A.C. or D.C. Operation



12" cone. Range 30 to 9000 cycles with suitable baffle. Voice coil impedance 8 ohms at 400 cycles. With 4200-ohm center-tapped input, matches 4000 or 4500-ohm line. **Other input impedances are available.** All models are equipped with hum-neutralizing coils. 10 watts continuous operating capacity. A.C. model (for operation from 110-volt, 60-cycles a.c. source) complete with 83V tube. Field wattage 18 maximum, 14 normal, 10 minimum. D.C. field 860 ohms. Overall dimensions 12 1/4" high, 8" deep, 12" wide. Shpg. wt. 27 lbs. a.c. 21 lbs. d.c.
YW19304—Model A-12DC **\$26.50**
List Price
YW19305—Model A-12AC **\$42.50**
List Price

Lafayette SPECIAL

12" A.C. and D.C. P.A. Speakers

Wide-range response. 12" cone. Voice coil impedance 2.7 ohms at 400 cycles. Handles 8 watts continuously. Employs a specially designed field exciter unit using a 2525 tube. Furnished with input transformer tapped for 250 and 500-ohm lines. 12 1/2" high, 12" diameter, 7" deep. For 110-120 volts, 50/60 cycles a.c. Shpg. wt. 10 lbs.
YW19249—Leas tube. **List Price \$14.90**



D.C. Models
Similar to above, but less exciter. Field requires 5 to 8 watts. Shpg. wt. 9 lbs.
YW19233—2500-ohm F. **YW19358**—6-volt F.
YW19234—5000-ohm Field. **List Price, Any O.C. Model. \$10.90**

QUALITY SPEAKERS and BAFFLES



All-Aluminum "Dome" Baffle

A new development in directive baffles. All-aluminum construction. Equipped with suspension rings. For 12" speakers. Overall length 20". Diameter of bell 17", length of bell 10". Shipping weight 4 lbs.

YY20040—List Price **\$9.00**
Weatherproof snap-on cover. YY20038—List Price **\$1.00**
ADAPTER RINGS. For reducing size of opening. State size when ordering. YY20045—List Price Each **75¢**

Dome Baffle with Built-in ROLA G-12 Speaker

Dome baffle as above, but with Rola G-12 d.c. speaker built-in 675 ohm field coil. Transformer for 250-500 ohm line. Shpg. wt. 30 lbs. YY20057—List Price **\$30.90**

Same as above, but with a.c. model Rola G-12 speaker. Field supply uses two 25Z5 tubes. Supplied complete with a transformer for 250-500 ohm line. Shpg. wt. 34 lbs. YY20058—List Price **\$40.90**
Complete with tubes.

Lafayette

Dome Baffle Floor Stand and Mounting Fixture



The floor stand has a three point heavily weighted base (22 lbs.) which offers ample support for the heaviest cone units. Wing nut arrangement permits directing of baffle in any desired position and then locking in place. Stand is 5 ft. high. Stand finished in black crystalline. Mounting Fixture is available as a separate unit. For mounting baffle on any sturdy pipe standard. YY20059—Floor Stand only. **\$20.00**
YY20060—Mounting Fixture only. Shipping weight 4 lbs. **\$9.00**
List Price. Mounting flange for fixture; has 1" male pipe thread nipple. YY20064—List Price Each **75¢**

Field Supplies

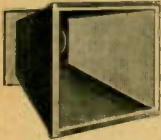
Interchangeable for 1000 or 2500 ohm fields. Single tube model delivers 6.5 watts into a 2500 ohm field, 11 watts into a 1000 ohm field. Dual model delivers 10 watts into a 2500 ohm field, 15 watts into a 1000 ohm field. Single model uses 1-25Z5, dual model 2-25Z5's. In black steel case 7" long, 3 1/2" wide, 6 1/4" high. For 110 volts, 60 cycles a.c. Shipping weight 6 lbs. YY19294—Single, less tube. **\$5.70**
List Price. YY19295—Dual, less tube. **\$7.90**
List Price.



Special Exciter 30 Watts (Max.)

In same case as units described above. Uses either an 80 or an 83V rectifier. Has following specifications: when using an 83V it will deliver 30 watts into a 1000 ohm field (minimum resistance), 24 watts into 1500 ohms, 20 watts into 2000 ohms, 17 watts into 2500 ohms and 11 watts into 5000 ohms. When using an 80, will deliver 18 watts into a 675 ohm field, 16 watts into 1000 ohms, 11 watts into 2500 ohms and 8 watts into 5000 ohms. For 110 volts, 60 cycles a.c. Shpg. wt. 8 lbs. YY19235—List Price, less tube. **\$13.90**

"DEMOUNTABLE" Directional Baffle



A demountable directional speaker baffle that can be easily assembled in a few minutes. Weatherproof material, aluminum finish. Bell opening 22x23"; length 25". Unassembled 27x25x3". Shpg. wt. 15 lbs. YY20052—7" opening. **\$10.80**
YY20053—10" opening.

List Price, Either Type. Similar to above, flared all sides. Bell 24x36"; length 37". 10" opening. Shpg. wt. 20 lbs. YY20039—List Price **\$14.50**

Lafayette

"DEMOUNTABLE" Flared Baffle



Can be assembled in a few minutes with a socket wrench or small pair of pliers. Fastened together with offset spade bolts. Dimensions assembled Unassembled 30x16x2 1/2" aluminum finish. Weatherproof material. Shipping weight 10 lbs. YY19837—7" speaker opening **\$7.90**
YY19838—10" speaker opening
List Price, Either Type.

"Demountable" Speaker Housing

For use with either flared or directional baffle. Inside dim., 15 1/4 x 15 1/4 x 11". YY20051—List Price **\$5.70**

Celotex Speaker Baffles



Any size hole can be had, to your specifications at no additional cost. When ordering specify size hole desired. Shpg. wt. 2 1/2 lbs. per sq. ft.

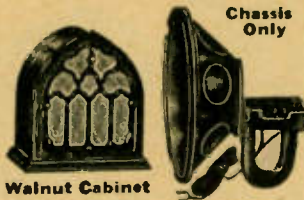
1 1/2" Thick			
Stock No.	Size In.	Hole Size, In.	List Price
YY19989	16x16	7 1/2 or 9	\$1.35
YY19794	18x18	7 1/2 or 9	1.60
YY19796	24x24	7 1/2 or 9	2.40
YY19795	36x36	9 or 12	5.50
YY19797	48x48	None	9.90
YY19799	48x72	None	13.50
3/4" Thick			
YY19752	16x16	7 1/2 or 9	\$0.56
YY19715	18x18	7 1/2 or 9	.85
YY19716	24x24	7 1/2 or 9	1.30
YY19717	36x36	None	3.00
YY19718	48x48	None	5.50

Giant Speaker Baffle



Designed to house the new giant dynamics with cone diameters up to 18". Entire assembly is weatherproof; smooth interior finish. Bell opening 48x32"; speaker housing 11 1/2 x 18 1/2" (inside), with 15 1/2" baffle hole (other hole sizes on order at same price.) Shpg. wt. 70 lbs. YY20063—List Price **\$55.00**

BBL Magnetic Speaker Chassis



Walnut Cabinet BBL Magnetic

Chassis Only

One of the finest magnetic speakers available. Will handle large output without rattling or distorting. Reproduces the entire tonal range with remarkable fidelity. Has impedance of 7000 ohms at 1000 cycles; d.c. resistance 1000 ohms. Cone diameter 9 1/2". Ideal for installations in schools, with inter-office call systems, and as extension speakers. Shpg. wt. 7 lbs. YY19133—List Price **\$5.50**

Speaker in Cabinet

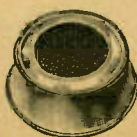
The above speaker is available in the handsome walnut cabinet shown above. Cabinet has paneled front with a dull gold grill cloth. Can be used in all types of installations; makes a very neat appearance. Size 13x11x7 1/2". Shipping weight 9 lbs. YY19177—List Price **\$9.00**

ROLA P.M. Loud Speakers

Type PM-8 Equal to the finest electro-magnet energized type. Employs dome center shield. Corrugated cone. Long life, powerful magnet. Outside diameter 8 1/2". Shpg. wt. 9 lbs. YY19346—With transformer having primary impedance of 8,000 ohms, plate to plate, with center tap. For triodes. YY19347—With transformer having primary impedance of 14,000 ohms, plate to plate, with center tap. For pentodes. List Price Each, Either Type **\$12.00**
Type PM-6—Similar to above, but with 6" outside diameter. Transformer primary 8000 ohms plate to plate, with center tap. Shpg. wt. 8 lbs. YY19348—List Price **\$10.00**



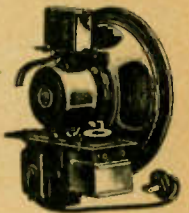
Wall Surface Speaker Housing



Of heavy gauge aluminum with weather-resistant natural finish. Metal screen and grill cloth. Cone diam. 5 1/2", inside depth 4 1/2". For 6" speakers. Shpg. wt. 2 lbs. Type SH-5. YY20061—List Price **\$5.00**
Same as above, but with 7" opening and 5 1/2" inside depth. Type LH-7. Shpg. wt. 3 lbs. YY20062—For 8" speakers. **\$6.00**
List Price.

8 1/2" A.C. and D.C. Dynamic Speakers

These speakers will handle a continuous output of 6 watts. Finished in bright cadmium plate. A.C. model has built in field supply using a type 80 tube. D.C. model has a standard 2500 ohm field. Universal output transformer for any type power tube, either single or P.P. Shipping weight 15 lbs. YY19291—A.C. model, less tube. **\$11.00**
List Price. YY19292—D.C. **\$5.50**
model. List Price.



Speaker Control Box

Special designed for use with A.C. systems. Offers a simple, positive means for controlling the operation of from one to ten speakers from a single point. Speakers can be thrown in and out of the circuit. For speakers with output impedances of 5000 ohms. Matches 500 ohm output impedance of amplifier. Assembly housed in a steel crackle finished box 10x7x5 1/2". Switches numbered and "on-off" positions shown. Shipping weight 6 lbs. YP15863—List Price **\$33.90**



P.A. Installation Accessories

NEW! ELECTRAD Type BN Attenuators



Replaces Bulky Units
Has Lower Noise Level

Rating: 1½ Watts
Signal Energy

These attenuators can be used to control the output (source) of microphone, phonograph pickup, radio line, antenna matching impedance line, amplifier tube plate through a choke-condenser coupler, secondary of line transformer, audio or radio frequency oscillator. They can be used in the usual series-parallel arrangement for input mixing, and are suitable for speaker volume control. Replace the bulky, multi-unit types T, LN and U, and have advantages of greater attenuation, true logarithmic attenuation and lower noise level. 1½" diameter, ½" deep. Shpg. wt. 1 lb.

Stock No.	Imped. Ohms	Stock No.	Imped. Ohms
YG7677	15	YG7683	3,000
YG7678	50	YG7684	4,000
YG7679	100	YG7685	5,000
YG7680	200	YG7686	7,000
YG7681	250	YG7687	10,000
YG7682	500		

List Price, Any Size. **\$3.00**

Midget Push Buttons



For light or buzzer signals for call systems, phone box on page 39 or similar devices.

Neat in appearance. Reliable brass spring contacts.
YM13297—Bakelite. 1½" diam.
List Price Each **18c**
Carton of 12 **\$2.00**
YM13238—Brass 1½" diameter.
List Price Each **18c**
Carton of 12 **\$2.00**
YM13237—Brass 2½" diameter.
List Price Each **18c**
Carton of 12 **\$2.00**

Rubber Covered 4-Wire Speaker Cable



Heavy rubber cover with hemp wrapper over conductors. For outdoor or portable work. Shpg. wt. 6 lbs. per 50 ft. Practically indestructible type of construction.

YQ16154—**10c**
List Price per Ft. **\$9.50**
Per 100 Ft.

3-WIRE CABLE

Similar to above, but 3 wires. Has many uses in indoor and outdoor public address work.

YY20948—**8c**
List Price per Ft. **\$7.50**
Per 100 Ft.

All-Rubber Insulation Parallel Lamp Cord



Abrasion-proof and water-proof. Two conductors are sheathed in a coating of live rubber. Ridge between conductors permits easy separation. For speaker, voice-coil lines, etc. Available in black, green, ivory or brown. Specify color desired. Shpg. wt. 3 lbs. per 100 feet.

18 GAUGE STRANDED
YY20920—List Prices
Per Ft. 100 Ft. 500 Ft.
3c \$2.30 \$10.90

Heavy Twisted Pair



Standard ¼" rubber, 14 gauge. Finest wire obtainable for jobs that call for a wire of large current carrying capacity and ability to stand plenty of abuse. For speaker voice-coil lines, field lines, etc. Stranded. Shpg. wt. 5 lbs. per 100 ft.
YY20890—**4c**
List Price per Foot **\$3.90**
Per 100 Feet.

Rubber Covered 5-Wire Shielded Cable



Rubber covered, reinforced with cord. Color-coded leads. Cotton braid outer layer, tinned shield. Ideal for condenser mikes. Shpg. wt. 10 lbs. per 100 feet.

YQ16100—**16c**
List Price per Ft. **\$15.00**
Per 100 Feet.

Heavy Duty Cord



The thick belt of flexible rubber that covers the conductor is made of smooth oil-resisting, abrasion-proof, high quality rubber. This flexible waterproof, oil-resisting, non-kinking cord is just the thing for hard service. Especially suitable for outdoor work, garages and portable devices. Shpg. wt. 7 lbs. per 100 feet.

Stock No.	Gauge and No. Conductors	Per Ft.	List Price 100 Ft.
YY20945	18-2-wire	6c	\$5.50
YY20946	16-2-wire	8c	7.50
YY20947	14-2-wire	12c	10.80
YY20948	18-3-wire	8c	7.50

Shielded Loom



Standard loom with a tinned braided shield on the outside. For shielding and protecting one or more wires. Will pass heavy wire. Shpg. wt. 1 lb. per 10 feet.

Stock No.	Inside Diam.	10 Ft.	50 Ft.	List Price
YQ16146	¼"	90c	\$4.30	
YQ16147	⅜"	\$1.20	5.60	
YQ16148	½"	1.70	7.90	

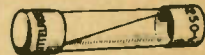
Three-Wire Shielded Locking Connectors



For Crystal and Velocity Microphone Cables

Heavy brass outer shell finished in rich chrome. Connector is locked by threaded brass collar. Can be used in rain and slush; para-rubber seals expand against cable. Heavy shell may be safely walked on without danger of breakage or noise. Bakelite insulation. Can be used as cable connector, for panel, chassis or outlet, or directly on mike. Overall, diameter 1½", length 2¼". Shpg. wt. 1 lb.
YM13524—**\$2.00**
List Price, per Set

LITTLEFUSES For P.A. Amplifiers



These fuses are approved by the Underwriters Laboratories. Fuse element is visible through the glass enclosure. Ratings plainly marked on caps. Dimensions only ¼" diameter by 1¼" long. Ideal for P.A. and movie amplifiers.

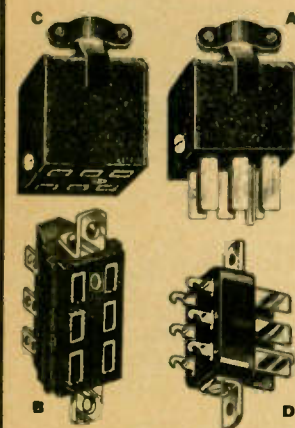
Stock No.	Amps.	V.	Each	Doz.
YN12378	1	250		
YN12379	1½	250	7c	84c
YN12380	2	250		
YN12381	3	250		
YN12396	½	500		
YN12397	¾	500	15c	\$1.80
YN12398	1	500		
YN12399	1½	500		

Insulated Staples

Handy for inside external wiring for speaker lines, ground lines, etc.
YP15950—Per 100
List Price **20c**
Per 1000 **\$1.96**



Heavy Duty Shielded Plugs and Sockets



A series of heavy duty multiple contact plugs and sockets made of genuine molded Bakelite with heavily armored metal caps. Very sturdily made and are excellent for use with portable public address systems. Finished in black crackle lacquer. Shpg. wt. 1 lb.

Flush Socket

Stock No.	Contacts	List Price
YL12406	2	50c
YL12407	4	69c
YL12408	6	70c
YL12409	8	80c
YL12410	10	90c
YL12411	12	\$1.00

Socket with Clamp

Stock No.	Contacts	List Price
YL12412	2	67c
YL12413	4	84c
YL12414	6	\$1.01
YL12415	8	1.18
YL12416	10	1.35
YL12417	12	1.52

Plug—With Angle Brackets For ¼" Panel

Stock No.	Contacts	List Price
YL12400	2	61c
YL12401	4	75c
YL12402	6	89c
YL12403	8	\$1.03
YL12404	10	1.17
YL12405	12	1.31

Stock No.	Contacts	List Price
YL12426	2	44c
YL12427	4	51c
YL12428	6	58c
YL12429	8	65c
YL12430	10	72c
YL12431	12	79c

"Twist Lock" Polarized Armored Connectors

A twist of the wrist and they are securely locked together! Cannot pull apart accidentally. Completely armored for protection against breakage. Equipped with clamps for cable. Will take large size wire up to ¼". Shpg. wt. 1 lb. Complete.

Two-Wire Connectors
YM13175—Male **76c**
List Price
YM13176—Female **\$1.50**
List Price
Three-Wire Connectors
YM13177—Male **\$1.14**
List Price
YM13178—Female **\$1.94**
List Price
Four-Wire Connectors
YM13179—Male **\$1.70**
List Price
YM13180—Female **\$2.90**
List Price

"Twist Lock" Receptacle

Fits standard outlet box. List Prices
YM13181 **\$1.96**
3 Wire
YM13182—Four Wire **\$2.50**

"Twist Lock" Recessed and Base Mount Plugs

For mounting on apparatus and to be used with "Twist Lock" female connectors. Recessed type provides flush surface and prevents accidental contacts with prongs. Shpg. wt. 1 lb.

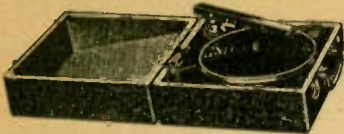
Two-Wire Male
YM13183—Base Mount **70c**
List Price
YM13184—Recessed **\$1.10**
List Price
Three-Wire Male
YM13185—Base Mount **90c**
List Price
YM13186—Recessed **\$1.50**
List Price
Four-Wire Male
YM13187—Base Mount **\$1.14**
List Price
YM13188—Recessed **\$1.90**
List Price

"Twist Lock" Female Receptacle

Made of porcelain. Shpg. wt. 1 lb.
YM13173—2-Wire, Each **90c**
YM13174—3-Wire, Each **\$1.58**

RECORDERS and RECORD CHANGERS

PACKARD Automatic Record Changers Model K



Uses powerful two-speed motor. Plays eight 10" records automatically, repeating or rejecting any record at will. Last record repeats until switch is turned off. Plays 12" records manually. Uses Piezo high-impedance crystal pick-up. Entire chassis of copper plated steel; exposed parts finished in staturary bronze. Requires space 17 1/2 x 13 1/2 x 5 1/2". For 110 volts, 50-60 cycles a.c. Shpg. wt. 30 lbs.

YY19820—Changer, less case. **List Price \$47.50**
As above, but with universal motor for 110 volts a.c. or d.c. Shpg. wt. 32 lbs. **List Price \$55.00**

YY21050—List Price \$8.90
YS17766—Portable carrying case. **List Price \$8.90**

Model L Record Changer: Similar to model K, but plays both 10" and 12" records automatically. **List Price \$55.00**

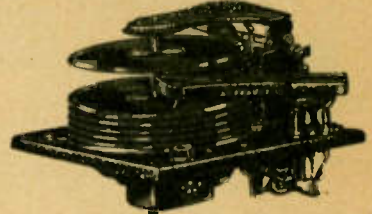
YS17754—110 volts, 60 cycles a.c. **List Price \$63.00**

YS17764—For 6 volts, d.c. **List Price \$63.00**

YY21053—Universal, 110 volts a.c. or d.c. **List Price \$62.50**

YS17767—Portable carrying case. **List Price \$9.50**

CAPEHART Dual Speed Automatic Record Changer



Equipped with the new balanced electrical pick-up. Excellent device for the home, public address systems, etc. Plays ten 10" or 12" records automatically, repeating or rejecting any record at will. Last record on turntable repeats until changer

is re-stacked, or till master switch is turned off. Volume control built-in. Entire mechanism finished in wrinkle black. Base 14 1/2 x 14 1/2"; height above mounting board 7 1/4"; depth below panel 3 1/4". Shpg. wt. 30 lbs.

YS17758—Mechanism complete, less cabinet. **List Price \$100.00**

Portable carrying case for above. Shpg. wt. 14 lbs. **List Price \$21.90**

YS17752—List Price

UNIVERSAL Professional Recorder

An excellent professional outfit that will make high-quality recordings on aluminum, silveroid, nitrate, acetate or wax discs. Recorder assembly is mainly of cast iron and weighs 125 lbs. The 16" turntable disc weighs 69 lbs., and is mounted on a 1" steel shaft and driven by an endless linen gum dipped belt. This drive method eliminates waver or "wow". Motor is 100% synchronous, reversible, and hand starting. It is absolutely constant in speed, regardless of load. Develops 1/12 h.p., and is mounted on a separate base with a countershaft that permits operation at 78 or 33 1/2 r.p.m. on 110 volts, 50-60 cycles a.c.

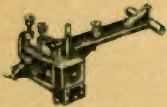
The cutter is a special Universal power recorder employing four pole pieces with a damping adjustment screw in each pole, and having a cobalt steel magnet. By means of the adjustment screws, any type of frequency response can be obtained. Lows or highs can be made predominant, or uniform response can be had over an unusually wide range of frequencies. It will cut any type of material used today for recording. A 10 power magnifying glass, supplied with the outfit, permits constant observation of the recording being made. All iron parts finished in black lacquer, with small parts in chrome and cadmium. Unit is bench mounting.



YN17701—Universal Professional Recording Machine, for operation on 110 volts, 50-60 cycles a.c. Complete with motor, motor mounting, three belts, depth gauge and shoe, magnifying glass, etc. Less recording head or cutter. Shipping weight 245 pounds. **List Price \$500.00**

YM13586—Special Power Cutter as described fitted to the above. Available in 500 ohms impedance. Other impedances on special order only. Shipping weight 8 pounds. **List Price \$70.00**

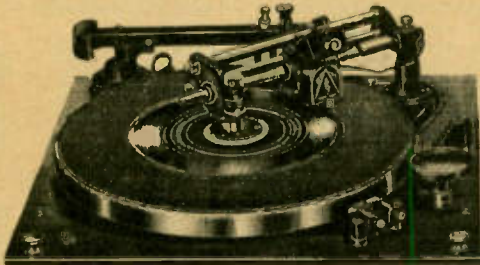
New UNIVERSAL "Floating" Recording Head



For use with professional recorder listed above. Same construction, but has various additional adjustments that insure elimination of needle "scream" and permit more accurate recording. Constructed entirely of aluminum and duralumin to be light weight. 400 ohms impedance, other impedances on special order only.

Shipping weight 2 pounds. **YN13698**—List Price **\$136.00**

Improved DUALL Super Recorder



Improved professional type. Features positive feed for the recording head that provides uniform spacing of lines and prevents overlapping. Audak high-quality play back pick-up, state impedance desired. Specially designed motor rated at 1/20 h.p., rim driven. Absolutely constant speed, vibrationless. Assembly consists of motor and 12" turntable, overhead feed mechanism for 80-line recordings on 12" records, and cutter head. Feed is inside out. Cutter head is special high-fidelity type with response flat within ±2 db from 100 to 5500 c.p.s. Cutter either 15 or 500 ohms impedance; specify type desired. Equipment is designed for cutting and recording on acetate, celluloid and some types of wax record blanks. Motor for operation on 115 volts, 50-60 cycles a.c. All metal parts above panel are black wrinkle lacquer finished with contrasting chromium plating. Shipping weight 30 pounds.

YY22081—Super Recorder, high fidelity model. For 78 and 33 1/2 r.p.m. recordings. **List Price \$315.00**

Overhead feed mechanism only, for acetate and celluloid recordings only. With high-fidelity cutter head, 15 or 500 ohms impedance—specify type. Use with motors rated 1/20 h.p. or stronger. Shpg. wt. 12 lbs. **YY19891**—List Price **\$80.00**

Professional Cutting Head and Arm

Same as power cutter described with professional recorder above. Mounted in a 12" arm. 400 ohms impedance; other impedances on special order only.



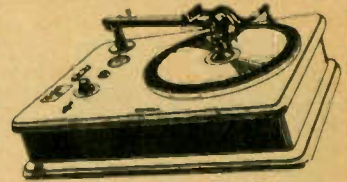
Has pressure adjustment screw. Shpg. wt. 2 lbs. **YN13699**—List Price **\$75.00**

Lead screw for records up to 16". 100 lines per inch. Complete with guide arm and adjustable bearing. Shpg. wt. 2 lbs. **YM13533**—Cut inside-out. **List Price \$15.00**

YM13534—Cut outside-in. Either Type **List Price \$15.00**

UNIVERSAL Model 12 Recorder

High-quality, comparatively inexpensive outfit for recording on aluminum discs up to 12" diam. Can also be used for experimental recording on acetate and silveroid. Comes with a powerful two-speed motor for 78 or 33 1/2 r.p.m. recordings. Weighted turntable has removable lead screw cutting 98 lines per inch. Cutting head has excellent response, and is furnished in 400 ohms impedance—other impedances to special order only. Outfit housed in natural finish wood box fitted with volume indicator, volume control and on-off switch. Sample record, stroboscope disc and recording booklet also furnished. For use on 110 volts, 50-60 cycles a.c. Shpg. wt. 38 lbs.



YS17702—List Price **\$148.00**

Complete Recording and P.A. System

Model 553P—A complete high quality recording and P.A. system has been assembled using the above recorder in conjunction with a suitable Lafayette amplifier, speaker, mike, cutting needle and accessories. The equipment included consists of: 1—Universal model 12 recorder; 1—Lafayette model 129-A Amplifier (page 4); 1—kit of tubes for amplifier; 1—Universal velocity mike (13638); 1—chrome plated floor stand (13528); 1—25 foot mike cable with plug; 1—Lafayette 12" d.c. dynamic speaker, 5000 ohm field (19234); 1—18x18" baffle (19715); 1—25 foot speaker cable; 1—sapphire recording needle for aluminum blanks (YA192); 6—10" aluminum blanks (YA202); 6—packages of bamboo playback needles (YA343). Shpg. wt. 125 lbs. Code SMETE. **List Price, Complete Outfit \$264.52**

NOTE—Suitable play back pick-ups listed on page 47 (crystal type particularly recommended). We will install pick-up at cost of unit plus a small installation charge.

PHONO PICK-UPS AND ACCESSORIES

PIEZO Crystal Pick-Ups



The piezo-electric crystal is the most efficient agent known for quality reproduction of recordings. With this pick-up the quality of reproduction is limited only by its accessories. Extremely light in weight. Ball-bearing construction. Plays 78 or 33 1/2 r.p.m. records. Black crystalline finish. High impedance. Shpg. wt. 4 lbs.
YA161—With 8" arm. List Price \$12.00
YA162—With 12" arm. List Price \$15.00

RCA Special Two-Speed

Phono Pick-Up



Latest and finest development among magnetic pick-ups. Has flat response from 50 to 5000 cycles. Arm counter-balanced to provide correct needle pressure on both 78 and 33 1/2 r.p.m. records. Assembly comprises head with impedance of 28 ohms, arm, stop rod, escutcheon and connecting cable. Finished in dull silver. Shpg. wt. 8 lbs.
YA388—List Price \$8.65

Diamond Cutting Needle

For recording in aluminum. Genuine diamond point. Lasts a life time. Used by professionals.
YA132—List Price Each \$3.50

Sapphire Reproducing and Cutting Needles

For recording on celluloid and acetate record blanks.
YA196—List Price \$7.50
 For recording on blank aluminum.
YA192—List Price \$4.10
 For recording on pre-grooved composition and celluloid.
YA194—List Price \$4.90
 For reproducing standard record.
YA196—List Price \$3.50

Steel Needles for Recording

YA344—For celluloid \$1.50
YA341—For aluminum 10¢

Steel Needles for playing back acetate records. Envelope of 12.

YA209—List Price 24¢

Bamboo Needles for playing back aluminum records. Envelope of 12.

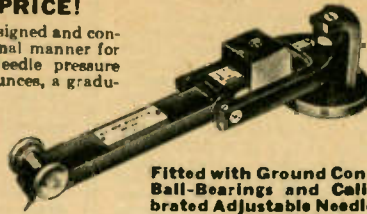
YA343—List Price 24¢

RCA Phono Needles

Steel. Half Tone, 75 to envelope. Others 100 to envelope.
YA159—Half Tone. YA153—Full Tone. YA160—Extra Loud Tone. List Price per Pack 15¢
 Chromium. Semi-permanent needles. Have colored shanks.
YA155—Orange (33 1/2 r.p.m.) YA157—Green (78 r.p.m.) List Price Either Type Package of Six 36¢
 Tungstone. Semi-permanent type. For use in automatic phonographs.
YA157—Extra-loud tone YA158—Full tone List Price Either Type Package of Eight 36¢

PROCTOR Piezo Professional Pick-Up At a New LOW PRICE!

A new crystal pick-up designed and constructed in the professional manner for professional results. Needle pressure adjustable from 1 to 3 ounces, a graduated scale shows exact pressure. Affords uniform response over practically entire audio range. High impedance. may be connected directly to input grid. Entire unit of cast aluminum finished in instrument-black and chromium. Overall dimensions: 14" long, 3 1/4" high, needle to base center, 12". Shpg. wt. 8 lbs.
YA164—High-impedance piezo crystal pick-up List Price \$60.00



Fitted with Ground Cone Ball-Bearings and Calibrated Adjustable Needle Pressure—1 to 3 Ounces

Special Equalizing Transformer for Above Pick-Up
 Secondary tapped to match 200 or 500-ohm input. Primary tapped to allow 7 adjustments for frequency compensation so that reproduction is substantially flat. Shpg. wt. 5 lbs.
YA163—List Price \$20.00

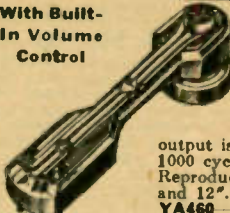
NEW! WEBSTER Crystal Pick-Ups Standard and "Hi-Fi" Models

Newly engineered crystal pick-ups for use wherever professional results are desired. Needle pressure 2 1/2 ounces. Built-in volume control and compensating filter. For any lateral-cut record up to 16". Both models finished in black enamel and brushed silver. Overall length 14", needle to base center, 9 1/2". Shpg. wt. 5 lbs.
YA145—Standard Model. 40 to 8000 cycles, impedance 180,000 ohms at 1000 cycles, voltage output, 1 1/2. List Price \$18.50
YA146—High-Fidelity Model. Response flat within 2 db, 40 to 5000 cycles with rising characteristic to 8000 cycles. Impedance 85,000 ohms at 1000 cycles. .7 volt output. List Price \$20.75



With Built-In Volume Control and Filter. 2 1/2 oz. Pressure

With Built-In Volume Control

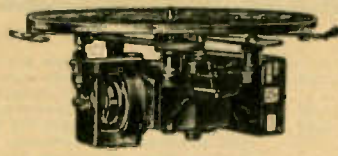


Standard Model X-70A2

The perfect balance of this arm eliminates the need for counterbalancing, arm resonance and attendant record wear. Needle pressure is only 2 1/2 oz. Frequency range is from 40 to 8000 cycles with compensation on both extreme high and low frequencies. Voltage output is 1.5 volts. Impedance is 180,000 ohms at 1000 cycles. Finished in attractive copper bronze. Reproduces both 78 and 33 r.p.m. records, 10" and 12". Shpg. wt. 4 lbs.
YA460—List Price \$12.00

GREEN FLYER Motors and Turntables

For 110 Volts, 60 Cycles A.C.
 Incorporate silent laminated spiral-cut Bakelite gears, completely enclosed and run in oil. Oversized, self-lubricated bearings; will not overheat in enclosed cabinet. Has speed dial and pointer, 10" turntable.
YA100—Two speed (78 and 33 1/2 r.p.m.). Shpg. wt. 15 lbs. List Price \$16.00
YA102—Single speed (78 r.p.m. only) List Price \$12.50



With 10" turntable and automatic stop. For 78 r.p.m. recordings only. Shpg. wt. 11 lbs.
YA126—List Price \$19.50

Sound Truck Six-Volt Motor
 For use where power source is limited to 6 volts as in sound truck application. Complete with 10" turntable. For both 78 and 33 1/2 r.p.m. recordings. Shpg. wt. 15 lbs.
YA127—List Price \$18.00

Special Heavy-Duty, Dual Speed Motor
 Similar to Model YA100 above, but with larger field and rotor (1/2" longer). For use wherever a more powerful motor is desired. Special governor maintains constant speed under varying load. Complete with 12" turntable. Shpg. wt. 15 lbs.
YA120—For 105/120 volts, 50/60 cycles a.c. List Price \$17.75

For 12" Turntable for Above Motors Add 60c to List Prices

Automatic Stop for Above Motors
 Fully adjustable. Quickly and easily mounted under turntable. Shpg. wt. 2 lbs.
YA135—List Price \$1.00

Audak Electro-Chromatic Model 2033 Magnetic Pick-Up



For use in all P.A. systems and receivers. Counter-weighted for correct needle pressure. 11" long overall. Wide-range response. Attractively finished in rubber-black. Climate proof. Shpg. wt. 5 lbs.
YA149—200 ohms impedance YA151—500 ohms impedance YA150—7500 ohms impedance List Price Each \$17.50

Model 433
 A low-priced model similar to above, but 9 3/4" long overall.
YA165—200 ohms impedance YA168—500 ohms impedance YA167—7500 ohms impedance List Price Each \$14.50

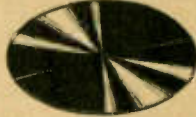
Audak Model 100 Pick-Up



For small spaces. Excellent frequency response. Electro-magnetic type. Overall length 9", height 2", base center to needle 7 1/2". Finished in attractive rubber-black. Shpg. wt. 2 lbs. w=imped. in ohms.
YA471—200 w. YA472—500 w. YA458—7500 w. List Price Each \$9.50

Special Acetate Coated Aluminum Record Blanks

Have no gritty surface and so scratch is eliminated. Cut like celluloid blanks, but give better results than celluloid or aluminum. These are not supplied pre-grooved.



Stock No.	Size	List Price Each
YA349	8"	\$1.10
YA351	10"	1.60
YA352	12"	2.00
YA353	16"	4.00

Aluminum Record Blanks Available in Plain or Grooved Form

These blanks are standard for recording in many fields and are capable of extra-wide frequency response with little scratch.

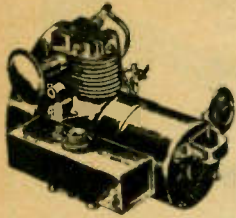
Plain			Pre-Grooved		
Stock No.	List Price	Size	Stock No.	List Price	Size
YA200	30c	6"	YA204	30c	6"
YA201	50c	8"	YA205	50c	8"
YA202	75c	10"	YA206	75c	10"
YA203	\$1.00	12"	YA207	\$1.00	12"
YA199	1.75	16"			

"Silveroid" Blanks

A newly developed full-frequency record blank. Has aluminum base with special formula coating. Will make recordings comparable to the finest. Most important, there is practically no needle scratch. Supplied in ungrooved form only, in 10" and 12" sizes. Will outlast any ordinary coated record if properly handled with suitable apparatus.
YA386—10" blank List Price Each \$1.20
YA387—12" blank List Price Each \$1.50

GENERATORS · CONVERTORS · BATTERIES

New PIONEER Gas Driven Generators



These new power plants are ideal for use in sound truck installations for charging batteries used with P.A. systems. Have many other practical uses. An auxiliary pulley is furnished which may be used to drive machinery by means of a "V" belt. The engine is an "L" head, vertical, air cooled type, four cycle, single cylinder. Has a rating of 3/4 h.p. at 3600 r.p.m. Fly ball type governor. High tension flywheel type magneto. Suction feed carburetor. Generator is self-excited, two pole. Armature is mounted directly on crankshaft. A push-button on end of generator is used to start the engine;

In the event of a dead battery, a rope pull starter, furnished with the assembly, is used. Complete plant is extremely light and portable, weighing only approximately 60 lbs., and measuring 11" high, 10" wide, and 17" long (32 volt model 17 1/2" long). All come complete with ammeter, cut-out relay, leads and battery clips. Just fill with gas and oil and they are ready for use. Fuel consumption at 160 watts is one gallon in 15 hours; 2 ounces of oil in 10 hours. Shpg. wt. 70 lbs.

- YS17230—For charging 6 volt batteries. 150 watts. **\$49.95**
- Model F6. List Price.
- YS17231—For charging 12 volt batteries. 150 watts. **\$54.50**
- Model F12. List Price.
- YS17232—For charging 32 volt batteries. 250 watts. **\$59.95**
- Model F32. List Price.
- YS17234—For 110 volt d.c. lights. 250 watts. **\$59.95**
- Model F110. List Price.

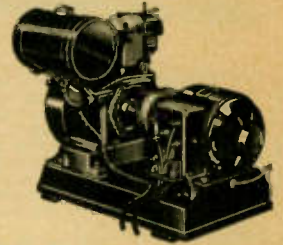
JANETTE Rotary Converters



For operating 110 volt, 60 cycle a.c. electrical appliances, radios, P.A. Systems, etc., from d.c. supplies. Models available for any voltage from 6 to 220 volts as listed below. All are equipped with interference filters to prevent noise reaching the radio. If filter is not required, write for prices on model desired. Sizes are listed suitable for practically any requirement from small up to large public address systems, transmitters, etc.

Stock No.	Output Watts	Input Amps.	List Price	Stock No.	Output Watts	Input Amps.	List Price
32 v. d.c. to 110 v. 60 cycle a.c.				110-115 v. d.c. to 110 v. 60 cycle a.c.			
YY19806	80	5.4	\$38.50	YY19807	80	1.3	\$38.50
YY19800	110	6.5	41.50	YY19803	110	1.9	41.50
YY19801	150	8.5	45.00	YY19804	150	2.4	46.00
YY19802	300	15	64.50	YY19805	300	4.0	64.50
YY19813	400	18	85.00	YY19815	500	6.4	85.00
YY19814	650	27	126.50				
220 v. d.c. to 110 v. 60 cycle a.c.				12 v. d.c. to 110 v. 60 cycle a.c.			
YY19816	150	1.2	48.00	YY19817	30	6.5	40.00
8 v. d.c. to 110 v. 60 cycle a.c.				YY19839	80	15	47.00
YY19808	30	13	40.50	YY19870	120	18	54.50
YY19818	60	24	64.50	YY19876	160	22	77.00

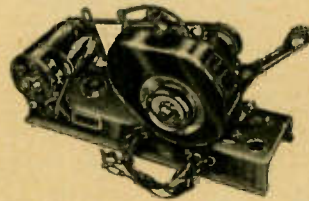
KATO A.C. Power Plants



Conservatively rated. Provision for self-starting by means of starting batteries which the plant keeps automatically charged. Remote starting and stopping, by means of push buttons or wall switches, available at slight extra cost. Consumes a minimum of gasoline and oil. Small voltage variation between load and no-load. Uses magneto ignition and accurate mechanical governor. Ideal for farm lighting, sound trucks, dance pavilions, etc. Available in sizes from 300 to 10,000 watts. Write for details and prices of sizes not listed.

- YS17220—300 watts, 110 volts a.c. Shpg. wt. 200 lbs. **\$158.00**
- Model 20A. List Price.
- YS17221—450 watts, 110 volts a.c. Shpg. wt. 220 lbs. **\$185.00**
- Model 22A. List Price.
- YS17237—550 watts, 110 volts a.c. Shpg. wt. 240 lbs. **\$205.00**
- Model 12A. List Price.
- YS17238—750 watts, 110 volts a.c. Shpg. wt. 280 lbs. **\$298.00**
- Model 24A. List Price.
- YS17222—Remote Control Panel for any unit. Shpg. wt. 18 lbs. List Price. **\$35.00**
- YS17223—Special Muffler Head for sound truck installations. Shpg. wt. 12 lbs. List Price. **\$9.00**

Special KATO 300 Watt Power Plant



Gas engine driven, delivers 110 to 120 volts 60 cycles a.c. at 300 watts. Single cylinder 4-cycle engine runs approximately 4 hours to quart of gas. Built-in magneto. Generator coupled to engine by "V" belt; foot pedal starter. Also delivers 6 volts d.c. for charging storage batteries. Ammeter and switch mounted on chassis. Entire assembly mounted on a black steel chassis. Shipping. wt. 80 lbs.

- YY19896—List Price. **\$84.00**

VESTA Storage Batteries

A line of well made, long lived 6 volt storage batteries. All constructed using thick plates of full depth and well made spacers. Housed in molded rubber leak-proof containers and provided with radio terminals and bail handle. All carry standard guarantee. Ideal for use with the power plants listed on this page.



Stock No.	No. Plates	Ampere Hours	Shpg. Wt.	List Price
YY21099	13	72	35 lbs.	\$9.00
YY21098	15	84	42 lbs.	10.50
YY21097	17	96	50 lbs.	12.50

RCA · RAYTHEON · Lafayette TUBES

Type No.	List Price Each			Type No.	List Price Each			Type No.	List Price Each		
	RCA	Raytheon	Lafayette		RCA	Raytheon	Lafayette		RCA	Raytheon	Lafayette
1-V	\$0.89	\$1.00	\$1.00	53	\$1.25	\$1.35	\$1.35	2A3	\$1.25	\$1.35	\$1.35
10	2.00	2.10	2.10	55	.99	1.10	1.10	2A5	.99	1.10	1.10
112A	.69	.75	.75	56	.69	.75	.75	2A6	.99	1.10	1.10
15	.99	1.10	1.10	57	.89	1.00	1.00	2B6	1.25	1.35	1.35
19	.99	1.10	1.10	58	.89	1.00	1.00	2B7	.89	1.00	1.00
20	.99	1.10	1.10	59	1.25	1.35	1.35	5Z3		1.60	
24A	.89	1.00	1.00	59	1.25	1.35	1.35	6A3	1.25	1.35	1.35
26	.59	.65	.65	60	.89	1.00	1.00	6A6	1.25	1.35	1.35
27	.69	.75	.75	61	.89	1.00	1.00	6A7	1.25	2.25	2.25
29	.69	.75	.75	62	.89	1.00	1.00	6B5	1.25	1.35	1.35
30	.69	.75	.75	63	1.25	1.35	1.35	6B7	1.25	1.35	1.35
31	1.25	1.35	1.35	64	.89	.99	.99	6C6	.99	1.10	1.10
32	.99	1.10	1.10	65	.89	1.00	1.00	6D6	.99	1.00	1.00
33	.99	1.10	1.10	66	.89	1.00	1.00	6E5	1.50	1.60	1.60
34	1.25	1.35	1.35	67	.89	1.00	1.00	6E6	1.50	1.70	1.70
35-51	.89	1.00	1.00	68	.89	1.00	1.00	6F7	1.50	1.60	1.60
36	.89	1.00	1.00	69	.89	1.00	1.00	12A5		2.10	2.10
37	.69	.75	.75	70	.89	1.00	1.00	12A7		2.20	2.20
38	.89	1.00	1.00	71	.89	1.00	1.00	12Z3	.99	1.10	1.10
39-44	.89	1.00	1.00	72	.89	1.00	1.00	25Z5	.99	1.10	1.10
40	.69	.75	.75	73	.89	1.00	1.00				
41	.89	1.00	1.00	74	.89	1.00	1.00				
42	.99	1.10	1.10	75	.89	1.00	1.00				
43	.99	1.10	1.10	76	.89	1.00	1.00				
45	.69	.75	.75	77	.89	1.00	1.00				
46	.99	1.10	1.10	78	.89	1.00	1.00				
47	.89	1.00	1.00	79	1.25	1.35	1.35				
48	2.50	2.60	2.60	80	.59	.65	.65				
49	.99	1.10	1.10	81	2.00	2.10	2.10				
50	2.50	2.60	2.60	82	.89	1.00	1.00				
52		1.70		83	.89	1.00	1.00				
				83-V	1.50	1.60	1.60				
				84-6Z4	1.25	1.35	1.35				
				85	.99	1.10	1.10				
				89	.99	1.10	1.10				
				1A4	1.50	1.75	1.75				
				1A6	1.25	1.35	1.35				
				1B4	1.75	2.00	2.00				

Confidential

TRADE DISCOUNT PRICES

for

Dealers, Servicemen & Sound Men

Remove this outer cover carefully and keep it handy so that you can quickly look up your CONFIDENTIAL DISCOUNT PRICES on all items in the Lafayette Public Address List Price Catalog No. 64. You don't have to do any figuring; the chart below gives list prices and YOUR NET PRICES with all discounts taken.

If you want extra copies of this Trade Discount Sheet, write to any Wholesale Radio Service Co., Inc. office. We are at your service, always ready to help you make more money!

Here Are Your Net Costs of Models in LIST PRICE Catalog No. 64

Stock No.	List Price	Net Price	Stock No.	List Price	Net Price	Stock No.	List Price	Net Price	Stock No.	List Price	Net Price
PAGE 2			Kit of tubes	8.93	4.79	Model 603-P	54.88	27.38	Kit of tubes	11.84	6.95
Model 511-P	\$84.95	\$44.87	Model 600-P	38.20	21.03	Model 604-P	38.20	21.02	Model 262-DF	2.95	1.48
Model 557-P	86.50	45.47	Model 602-P	60.70	34.25	PAGE 8			PAGE 11		
Model 558-P	92.50	49.27	Model 603-P	54.88	27.38	Model 177-A	\$56.70	\$28.35	Model 559-P	\$178.95	\$90.77
PAGE 3			YQ16385	11.96	3.98	Kit of tubes	9.87	5.34	Model 600-P	38.20	21.03
Model 244-A	\$25.00	\$12.50	YQ16386	7.96	5.98	Model 177-DF	3.20	1.60	Model 602-P	60.70	34.25
Kit of tubes	5.73	3.14	NOTE: When ordering YQ16385-6 specify which speaker cable is for l. e. speaker connected to amplifier or extension speaker.			PAGE 9			Model 603-P	54.88	27.38
Model 244-DL	1.90	.95	PAGE 6			Model 179-A	\$85.00	\$42.50	Model 604-P	38.20	21.02
Model 548-P	53.90	26.95	Model 145-DF	\$ 2.95	\$ 1.48	Kit of tubes	9.87	5.34	PAGE 12		
Kit of tubes	5.73	3.14	Model 145-A	49.90	24.95	Model 505-P	160.67	74.74	Model 255-A	\$85.00	\$42.50
Model 604-P	38.20	21.02	Kit of tubes	9.20	5.40	Model 542-P	145.32	73.96	Kit of tubes	10.02	6.19
PAGE 4			PAGE 7			Model 600-P	38.20	21.03	Model 255-DF	3.95	1.98
Model 129-A	\$39.90	\$19.95	Model 507-P	\$99.65	\$50.63	Model 602-P	60.70	34.25	PAGE 13		
Kit of tubes	8.93	4.79	Model 600-P	38.20	21.03	Model 603-P	54.88	27.38	Model 508-P	\$180.57	\$104.47
Model 539-P	86.60	43.54	Model 602-P	60.70	34.25	Model 604-P	38.20	21.02	Model 600-P	38.20	21.03
Model 600-P	38.20	21.03	PAGE 8			YY22003	10.90	5.45	Model 602-P	60.70	34.25
PAGE 5			PAGE 9			PAGE 10			Model 603-P	54.88	27.38
Model 579-P	\$79.00	\$39.50	Model 507-P	\$99.65	\$50.63	Model 262-A	\$69.00	\$34.50	Model 604-P	38.20	21.02

WHOLESALE RADIO SERVICE CO. INC.

NEW YORK, N.Y.
100 SIXTH AVENUE

CHICAGO, ILL.
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NEWARK, N.J. 219 CENTRAL AVE. • BRONX, N.Y. 542 E. FORDHAM RD.

Stock No.	List Price	Net Price	Stock No.	List Price	Net Price	Stock No.	List Price	Net Price	Stock No.	List Price	Net Price
PAGE 14			YY22051	13.90	6.95	YN 13384	7.50	3.75	YM 13388	22.50	13.23
Model 290-A	\$105.00	\$52.50	YY22052	21.90	10.95	YN 13540	2.00	1.18	YM 13389	3.75	1.95
Kit of tubes	12.56	7.35	YY22053	21.90	10.95	YW 19128	7.50	3.75	YM 13416	22.50	13.23
Model 290-DF	3.95	1.98	YY22054	23.90	11.95	PAGE 36			YM 13417	25.00	14.70
PAGE 15			YY22055	11.00	5.50	YM 13363	22.50	13.23	YM 13418	37.50	22.05
Model 114-A	\$55.00	\$27.50	PAGE 30			YM 13384	7.50	3.75	YM 13420	11.50	5.75
Model 116-A	62.90	31.45	Model 400-A	\$129.00	\$64.50	YM 13428	9.70	4.85	YM 13426	22.50	13.23
114 & 116-A			Kit of tubes	9.44	5.54	YM 13528	13.70	6.85	YM 13429	30.00	17.64
Tube Kit	11.68	6.86	Model 404-A	119.00	59.50	YP 15861	25.00	12.50	YM 13458	25.00	14.70
Model 118-A	66.00	33.00	YZ21908	8.00	5.45	YP 15861			YM 13473	22.50	13.23
Tube kit	7.52	4.41	YY22086	14.40	7.20	Tube Kit	4.85	2.84	YM 13474	27.50	16.17
Model 118-DF	2.90	1.45	YY22257	7.90	3.95	YP 15867	49.90	24.95	YM 13476	26.50	15.58
Model 119-A	71.00	35.50	PAGE 31			YP 15867			YM 13477	25.00	14.70
YC2530	30.00	15.00	Model 402-A	\$53.90	\$26.95	Tube Kit	12.13	6.23	YM 13575	25.00	14.70
YE5665	7.90	3.95	Model 403-A	19.90	9.95	YQ 16139	1.20	.60	YM 13578	26.50	15.58
YE5666	25.00	12.50	Model 405 A	53.90	26.95	YW 19126	7.50	3.75	YN 13604	32.00	18.82
PAGE 16			System 700-P	174.54	88.09	YQ20842	per ft. .06 per ft. .03		YN 13610	37.50	22.05
Model 138-A	\$163.00	\$81.50	System 701-P	309.22	158.33	PAGE 37			YN 13620	25.00	14.70
YY22002	17.00	8.50	System 702-P	234.58	118.11	YE 5401	15.00	9.00	YN 13621	27.50	16.17
Model 139-A	59.00	29.50	System 703-P	371.24	189.34	YE 5402	20.00	12.00	YN 13622	28.00	16.46
Kit of tubes	6.02	3.51	System 704-P	392.24	198.01	YE 5405	15.00	9.00	YN 13628	12.50	7.35
PAGE 17			System 705-P	582.00	295.58	YE 5407	20.00	12.00	YN 13629	15.00	8.82
Model 525-P	\$390.00	\$195.00	System 706-P	\$373.04	\$177.65	YE 5408	15.00	9.00	YN 13630	12.50	7.35
Model 601-P	56.20	31.74	System 707-P	220.22	110.93	YE 5427	15.00	9.00	YN 13631	15.00	8.82
Model 602-P	60.70	34.25	System 708-P	229.68	117.74	YE 5428	15.00	9.00	YN 13926	6.25	3.68
Model 603-P	54.88	27.38	PAGE 32			YE 5658	20.00	12.00	YN 13934	6.75	3.97
PAGE 18			ype 868 RCA	\$ 5.00	\$ 5.00	YE 5659	15.00	9.00	YN 13939	7.30	4.30
Model 578-P	\$149.00	\$74.50	Type 868 Lar.	4.00	4.00	Y6 5660	20.00	12.00	YN 13940	.50	.22
Kit of tubes	6.74	3.51	Exciter Lamps			Y9 5661	15.00	9.00	YN 14971	.50	.19
Model 1050-PP	16.50	8.25	Type 854,			YE5662	15.00	9.00	YN 14972	.50	.19
Model 1055-PP	29.00	14.50	105, 107	1.00	.50	YP 15400	48.00	33.60	YN 14973	.50	.19
Model 519-P	222.24	113.07	Type CE-1	6.00	6.00	PAGE 38			YN 14974	.50	.19
PAGE 19			Type CE-2	6.00	6.00	YD1422	\$ 7.50	\$ 3.75	PAGE 41		
Model 147-A	\$79.00	\$39.50	Type CE-3	6.00	6.00	YB1423	31.90	15.95	YF6346	2.25	1.32
Kit of tubes	6.74	3.51	YY20070	350.00	350.00	YN1424	37.90	18.95	YF6349	2.50	1.47
Model 554-P	155.44	79.46	Net per Net per			YC1565	4.90	2.45	YL11471	.25	.15
Model 1050-PP	16.50	8.25	P'kge Case			YC1929	1.90	.95	YL11472	.25	.15
PAGE 20			of 50 of 250			YC1968	5.60	2.80	YL11473	.25	.15
Model 275-A	\$85.90	\$42.95	YY20071	\$5 40	\$25.40	YC1969	4.10	2.05	YL11474	.25	.15
Model 275-DF	3.00	1.50	YY20072	5.95	28.00	YC1970	7.50	4.40	YL11475	.25	.15
Kit of tubes	10.42	6.09	YY20073	3.35	15.75	YC2569	5.00	2.50	YL11476	.25	.15
System 501-P	167.33	81.44	YY20074	6.30	29.75	YC2572	7.50	3.75	YL11477	.25	.15
System 603-P	54.88	27.38	YY20075	3.55	16.65	YC2594	6.50	3.25	YL11478	.25	.15
Model 1052-PP	17.90	8.95	Stock	List	Net	YE5447	1.30	.76	YL11479	.25	.15
Model 1055-PP	29.00	14.50	No.	Price	Price	YE5448	1.40	.82	YL12400	.61	.37
PAGE 21			YY20076	115.00	57.50	YE5449	2.50	1.47	YL12412	.67	.40
Model 266-A	\$139.90	\$69.95	YY20077	115.00	57.50	YE5450	2.50	1.47	YM13343	1.00	.59
Model 266-DF	3.95	1.98	YY20078	19.50	9.75	YE5453	12.50	7.50	YM13344	1.00	.59
Kit of tubes	11.24	6.56	YY20079	sq. ft. 1.00	sq. ft. .50	YE5454	12.50	7.50	YM13345	1.00	.59
Model 1045-PP	25.00	12.50	YY20080	sq. ft. .86	sq. ft. .43	YE5494	3.10	1.55	YM13347	1.00	.59
System 549-P	381.70	180.29	YY20081	sq. ft. .90	sq. ft. .45	YE5531	8.50	5.10	YM13348	1.00	.59
PAGE 22			YY20082	sq. ft. .70	sq. ft. .35	YE5532	6.00	3.50	YM13349	1.00	.59
Model 587-P	\$175.00	\$87.50	YY20083	sq. ft. .58	sq. ft. .29	YE5533	5.00	3.00	YM13350	1.00	.59
PAGE 23			YY20084	sq. ft. .80	sq. ft. .40	YE5598	2.50	1.47	YM13351	1.00	.59
Model 573-P	\$125.00	\$62.50	YY20085	174.00	112.24	VJ10593	11.25	8.27	YM13381	4.80	2.40
PAGE 24			YY20086	500.00	500.00	VJ10758	20.00	14.70	YM13402	.30	.15
Model 521-P	\$222.00	\$111.00	YY20087	650.00	650.00	YV19100	3.00	1.25	YM13427	6.50	3.25
Model 522-P	234.10	117.51	YY20088	5.00	5.00	YV19101	.25	.15	YM13442	6.00	3.60
PAGE 25			PAGE 33			PAGE 39			YM13481	.80	.40
Model 591-PL	\$197.00	\$98.50	YP15271	\$ 1.08	\$.54	YM13409	10.00	5.88	YM13521	.75	.40
Kit of tubes	13.17	8.05	YP15272	1.78	.89	YM13410	15.00	8.82	YM13522	.50	.26
Model 601-P	56.20	31.74	YY22003	10.90	5.45	YM13412	7.50	4.41	YM13523	.65	.39
Model 602-P	60.70	34.25	YY22150	21.40	10.70	YM13413	10.00	5.88	YM13526	6.50	3.25
PAGE 26			YY22151	17.40	8.70	YM13414	10.00	5.88	YM13528	13.70	6.85
Model 1008-A	\$190.00	\$95.00	YY22152	19.00	9.50	YM13415	10.00	5.88	YM13540	2.00	1.18
YY22003	10.90	5.45	YY22153	45.00	22.50	YM13452	12.00	7.05	YM13541	1.50	.88
PAGE 27			YY22154	35.50	17.75	YM13463	80.00	58.80	YM13542	3.00	1.76
Model 1004-TP	\$54.90	\$27.45	YY22159	1.80	.90	YM13468	80.00	58.80	YM13543	2.00	1.18
Model 1005-TP	49.90	24.95	YY22192	16.40	8.20	YM13470	32.00	18.82	YM13544	.40	.20
Kit of tubes	11.60	5.92	YY22193	15.70	7.85	YM13475	80.00	58.80	YM13545	.50	.25
Model 1006-TP	84.00	42.00	YY22194	8.90	4.45	YM13524	2.00	1.18	YM13574	35.90	17.95
Model 1007-TP	79.00	39.50	YY22240	3.00	1.50	YN13565	42.00	24.70	YM13576	9.90	4.95
Kit of tubes	9.09	5.32	YY22241	3.50	1.75	YN13568	30.00	17.64	YM13577	18.50	9.25
YY22013	45.50	22.75	YY22242	5.50	2.75	YN13569	30.00	17.64	YM13578	10.50	5.25
YY21057	55.50	27.75	YY22243	4.50	2.25	YN13571	39.90	19.95	YQ16079	per ft. .08 per ft. .04	
YY22049	27.50	13.75	YY22244	5.50	2.75	YN13572	39.90	19.95	YQ16135	.70	.35
PAGE 28			YY22341	15.00	7.50	YN13573	29.90	14.95	YQ16139	1.20	.60
Model 200-A	\$26.90	\$13.45	YY22342	18.50	9.25	YN13598	32.00	18.82	YQ16140	2.30	1.15
Model 201-A	26.90	13.45	YY22343	17.00	8.50	YN13599	32.00	18.82	YQ16141	3.80	1.90
Model 202-A	31.90	15.95	YY22390	89.00	44.50	YN13612	42.00	24.70	YQ16145	per ft. .08 per ft. .04	
Model 203-A	31.90	15.95	YY22391	2.10	1.05	YN13613	42.00	24.70	YQ16201	3.20	1.60
Model 204-A	46.25	23.13	YY22392	3.20	1.60	YN13614	42.00	24.70	YQ16202	6.20	3.10
Model 205-A	46.25	23.13	YY22393	3.90	1.95	YN13615	42.00	24.70	YQ16204	.90	.45
Model 206-A	51.25	25.62	YY22394	5.00	2.50	YN13616	42.00	24.70	YQ16205	1.70	.85
Model 207-A	51.25	25.62	YY22395	5.90	2.95	YN13623	45.00	26.46	YQ16206	3.20	1.60
Model 224-A	33.50	16.75	YY22396	14.80	7.40	YN13624	47.50	27.93	YQ16207	6.20	3.10
Model 226-A	38.50	19.25	YY22397	9.60	4.80	YN13625	39.90	19.95	YQ16333	2.60	1.30
Model 1046-PP	25.90	12.95	YY22398	9.60	4.80	YN13626	29.90	14.95	YQ16334	4.80	2.40
Model 1047-PP	30.90	15.45	PAGE 34			YN13627	29.90	14.95	YY20842	per ft. .06 per ft. .03	
YE5427	15.00	9.00	YP15860	\$18.90	\$ 9.45	YN13632	47.50	27.93	PAGE 42		
YE5486	15.00	9.00	Tubes for above 2.77	1.62	1.62	YN13633	135.00	81.00	2525	.99	.58
YE5663	4.80	2.88	YP15864	17.90	8.95	YN13634	65.00	39.00	YW19158	7.90	3.87
YE5664	4.80	2.88	Tubes for above 2.97	1.74	1.74	YN13635	65.00	39.00	YW19160	6.30	3.09

Stock No.	List Price	Net Price	Stock No.	List Price	Net Price	Stock No.	List Price	Net Price	Type	RCA Net	Rayth. Net	Laf. Net
YY20047	42.50	24.99	YN12396	Ea. .15	Ea. .09	YS17766	8.90	4.45	1-V	.52	.51	.45
YY20048	35.00	20.58		Dz. 1.80	Dz. 1.00	YS17767	9.50	4.75	10	1.18	1.07	.99
YY20049	30.00	17.64	YN12397	Ea. .15	Ea. .09	YY19820	47.50	27.81	112-A	.40	.38	.34
YY20065	31.90	15.95		Dz. 1.80	Dz. 1.00	YY19891	80.00	48.00	15		1.02	
YY20066	59.00	29.50	YN12398	Ea. .15	Ea. .09	YY21050	55.00	32.45	19	.58	.56	.49
YY20068	25.00	14.70		Dz. 1.80	Dz. 1.00	YY21053	62.50	37.39	20	.58	.56	.53
			YN12399	Ea. .15	Ea. .09	YY22081	315.00	190.00	24-A	.52	.51	.45
				Dz. 1.80	Dz. 1.00				26	.34	.33	.28
									27	.40	.38	.34
Model 1041-PP	88.00	44.00	YL12400	.61	.37	YA100	16.00	16.00	29			1.65
Model 1042-PP	71.40	35.70	YL12401	.75	.45	YA102	12.50	7.35	30	.40	.38	.34
YW19140	7.00	3.40	YL12402	.89	.54	YA120	17.75	10.44	31	.40	.38	.34
YW19141	7.60	3.89	YL12403	1.03	.62	YA126	19.50	11.47	32	.73	.69	.63
YW19142	4.00	1.96	YL12404	1.17	.70	YA127	18.00	13.82	32	.58	.56	.49
YW19143	4.50	2.20	YL12405	1.31	.79	YA132	3.50	1.75	33	.58	.56	.49
YW19144	4.00	1.96	YL12406	.50	.30	YA135	1.00	.60	34	.73	.69	.62
YW19145	4.50	2.20	YL12407	.60	.36	YA145	18.50	11.10	35-51	.52	.51	.45
YW19187	20.50	10.04	YL12408	.70	.42	YA146	20.75	12.45	36	.52	.51	.45
YW19188	20.50	10.04	YL12409	.80	.48	YA149	17.50	7.25	37	.40	.38	.34
YW19189	20.50	10.04	YL12410	.90	.54	YA150	17.50	7.25	38	.52	.51	.45
YW19233	10.90	5.45	YL12411	1.00	.60	YA151	17.50	7.25	39-44	.52	.51	.45
YW19234	10.90	5.45	YL12412	.67	.40	YA153	.15	.10	40	.40	.38	
YW19240	25.00	9.50	YL12413	.84	.50	YA155	.36	.18	41	.52	.51	.45
YW19241	25.00	9.50	YL12414	1.01	.61	YA157	.36	.18	42	.58	.56	.49
YW19243	25.00	9.50	YL12415	1.18	.71	YA158	.36	.18	43	.58	.56	.49
YW19244	25.00	9.50	YL12416	1.35	.81	YA159	.15	.10	45	.40	.38	.34
YW19249	14.90	7.45	YL12417	1.52	.91	YA160	.15	.10	46	.58	.56	.49
YW19301	29.00	14.50	YL12418	.44	.27	YA161	12.00	7.06	47	.52	.51	.45
83 type tube	.89	.51	YL12419	.51	.31	YA162	15.00	8.82	48	1.47	1.33	1.25
YW19304	26.50	18.18	YL12428	.58	.35	YA163	20.00	12.00	49	.58	.56	.49
YW19305	42.50	29.15	YL12429	.65	.39	YA164	60.00	36.00	50	1.47	1.33	1.25
YW19355	20.00	13.72	YL12430	.72	.43	YA165	14.50	5.62	52		.87	
YW19356	12.00	8.23	YL12431	.79	.48	YA167	14.50	5.62	53	.73	.69	.62
YW19357	92.50	63.46	YM13173	.90	.45	YA168	14.50	5.62	55	.58	.56	.49
YW19358	10.90	5.45	YM13174	1.58	.79	YA192	4.10	2.05	56	.40	.38	.34
			YM13175	.76	.38	YA194	4.90	2.45	57	.52	.51	.45
			YM13176	1.50	.75	YA195	3.50	1.75	58	.52	.51	.45
YP15868	33.90	16.95	YM13177	1.14	.57	YA196	7.50	3.75	59	.73	.69	.62
YV19133	5.50	2.38	YM13178	1.94	.97	YA199	1.75	.88	75	.58	.56	.49
YW19177	9.00	3.98	YM13179	1.70	.85	YA200	.30	.15	76	.40	.38	.34
YW19235	13.90	6.95	YM13180	2.90	1.45	YA201	.50	.22	77	.58	.56	.49
YW19291	11.00	5.35	YM13181	1.96	.98	YA202	.75	.29	78	.58	.56	.49
YW19292	5.50	2.75	YM13182	2.50	1.25	YA203	1.00	.50	79	.73	.69	.62
YW19294	5.70	2.85	YM13183	.70	.35	YA204	.30	.18	80	.34	.33	.29
YW19295	7.90	3.95	YM13184	1.10	.55	YA205	.50	.30	81	1.18	1.07	.99
YW19346	12.00	6.70	YM13185	.90	.45	YA206	.75	.44	82	.52	.51	.45
YW19347	12.00	6.70	YM13186	1.50	.75	YA207	1.00	.57	83	.52	.51	.45
YW19348	10.00	5.75	M13187	1.14	.57	YA209	.24	.10	83-V	.88	.82	.75
YY19715	.85	.43	YM13188	1.90	.95	YA341	.10	.05	84-6Z4	.73	.69	.62
YY19716	1.30	.64	YM13189	.18	.09	YA343	.24	.10	85	.58	.56	.49
YY19717	3.00	1.50	Carton of 12	2.00	1.00	YA344	1.50	.75	89	.58	.56	.49
YY19718	5.50	2.75	YM13238	.18	.09	YA349	1.10	.50	1A4	.88	.75	
YY19752	.56	.28	Carton of 12	2.00	1.00	YA351	1.60	.80	1A6	.73	.69	.62
YY19794	1.60	.80	YM13297	.18	.09	YA352	2.00	1.00	1B4	1.03	1.03	
YY19795	2.40	1.18	Carton of 12	2.00	1.00	YA353	4.00	1.65	2A3	.73	.69	.62
YY19796	5.50	2.75	YM13524	2.00	1.20	YA357	.36	.18	2A5	.58	.56	.49
YY19797	9.90	4.95	YP15950	.20	.10	YA386	1.20	.71	2A6	.58	.56	.49
YY19799	13.50	6.75	Per 1000	1.96	.98	YA387	1.50	.88	2B6			1.20
YY19837	7.90	3.95	YQ16100	.16	.08	YA388	8.65	5.17	2B7	.73	.69	.62
YY19838	7.90	3.95	Per 100 ft.	15.00	7.50	YA458	9.50	4.45	5Z3	.52	.51	.45
YY19899	1.35	.67				YA460	12.00	7.06	6A3		.80	
YY20038	1.00	.55				YA471	9.50	4.45	6A6	.73	.69	.62
YY20039	14.50	7.25				YA472	9.50	4.45	6A7	.73	.69	.62
YY20040	9.00	5.40							6B5		1.10	1.05
YY20045	.75	.44	YQ16146	.45	2.15	YS17220	158.00	116.13	6B7	.73	.69	.62
YY20051	5.70	2.85	YQ16147	.60	2.80	YS17221	185.00	135.97	6C6	.58	.56	.49
YY20052	10.80	5.40	YQ16148	.85	3.95	YS17222	35.00	25.72	6D6	.52	.51	.45
YY20053	10.80	5.40				YS17223	9.00	6.61	6E5	.88	.80	
YY20057	30.90	15.45	YQ16154 per ft.	.10 per ft.	.05	YS17230	49.95	39.95	6E6	.88	.87	
YY20058	40.90	20.45	Per 100 ft.	9.50	4.75	YS17231	54.50	43.60	6F7	.88	.82	.75
YY20059	20.00	11.76	YY20890 per ft.	.04 per ft.	.02	YS17232	59.95	48.90	12A5		1.07	.93
YY20060	9.00	5.30	Per 100 ft.	3.90	1.95	YS17234	59.95	48.90	12A7		1.13	.99
YY20061	5.00	2.94	YY20920 per ft.	.03 per ft.	.01½	YS17237	205.00	150.70	12Z3	.58	.56	.49
YY20062	6.00	3.53	Per 100 ft.	2.30	1.25	YS17238	298.00	219.03	25Z5	.58	.56	.49
YY20063	55.00	32.34	Per 500 ft.	10.90	5.95	YY19800	41.50	28.47				
YY20064	.75	.45	YY20945 per ft.	.06 per ft.	.03	YY19801	46.00	31.56				
			Per 100 ft.	5.50	2.75	YY19802	64.50	44.25				
			YY20946 per ft.	.08 per ft.	.04	YY19803	41.50	28.47				
			Per 100 ft.	7.50	3.75	YY19804	46.00	31.56				
			YY20947 per ft.	.12 per ft.	.06	YY19805	64.50	44.25				
			Per 100 ft.	10.80	5.40	YY19806	38.50	26.41				
			YY20948 per ft.	.08 per ft.	.04	YY19807	38.50	26.41				
			Per 100 ft.	7.50	3.75	YY19808	40.50	27.79				
						YY19813	85.00	58.31				
						YY19814	126.50	86.78				
						YY19816	48.00	32.93				
						YY19817	40.00	27.44				
						YY19818	64.50	44.25				
						YY19839	47.00	32.25				
						YY19870	54.50	37.39				
						YY19876	77.00	52.84				
						YY19896	84.00	61.74				
						YY21097	12.00	6.25				
						YY21098	10.50	5.25				
						YY21099	9.00	4.35				

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6C5	.73	.70
6F5	.73	.70
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6H6	.73	.70
6J7	.94	.89
6K7	.88	.84
6L7	1.03	.98
6Q7	1.18	1.11
6R7	1.18	1.11</

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