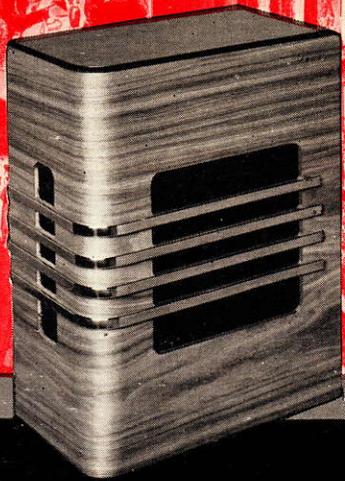


*The Sound of Tomorrow*

BY

WEBSTER-CHICAGO



*Catalog*  
NO. 139

Super-FIDELITY

SOUND EQUIPMENT FOR ALL APPLICATIONS

# WEBSTER - CHICAGO

presents

## "The Sound of Tomorrow"



### *Designed and Built Complete in this Modern Plant*

Housed under one roof is the unique combination of a manufacturing and an engineering organization nationally famous for its contributions to the advancement of the art for a full quarter-century, with a plant thoroughly equipped for economical production of quality electrical apparatus from the raw materials through to the finished product.

#### Why BUY SOUND EQUIPMENT?

**B**ECAUSE shouting is outmoded—no longer need the orator, lecturer, teacher, singer, or musician strain vocal cords and muscles to insure audibility. Electronic power has combined tremendous volume with astonishing clearness for the comfort and convenience of both speaker and listener. There are as

many occasions to amplify sound as there are to ride instead of walk. A reading of this catalog will suggest to almost any business or institutional executive, ways in which he can utilize, for his own greater profit and the convenience of those he serves, today's marvelously efficient and economical amplifying systems.

#### How TO SELECT SOUND EQUIPMENT

Choosing the right sound apparatus is as important as choosing any technical equipment. The following pages contain *accurate buying data*. Not only is the correct power output rating of each amplifier given in watts, but also the "recommended coverage" of each is clearly described. It is important to note, especially when making comparisons, that this "capacity to handle" data is based on the undistorted and richly toned sound in Webster-Chicago equipment. Two facts are of vital importance to the prospective user.

FIRST, for best results the component units of a sound system should be balanced and *thoroughly adapted to each other*. The wise purchaser will insist on a *complete Webster-Chicago Sound System*—from microphone to speakers.

SECOND, the making up and installing of a synchronized system is not a job that can be done to best advantage without the help and counsel of a qualified sound technician, no more than in air conditioning or electric refrigeration. Webster-Chicago leadership has been established on its ability to satisfy the exacting demands of these sound technicians.

In these pages, no pains have been spared to give information that will be helpful toward selecting the right apparatus for any job. But *no printed information* can take the place of the knowledge and experience of a qualified specialist. *It costs no more* to have your Webster-Chicago Sound System "*tailored*" to your needs.

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**THE WEBSTER COMPANY — 5622 Bloomingdale Avenue — CHICAGO, ILLINOIS**



# "SUPER-FIDELITY" HIGH POWER SYSTEMS



Quality Power Sufficient for Every Type of Installation Regardless of Size.

Webster-Chicago is proud to present these two new *Super-Fidelity* amplifier systems. They offer the best and most flexible reinforcement system that it is possible to build, utilizing the latest known developments of the art. These systems represent the best effort of advanced engineering, and contain such outstanding features as low impedance microphone inputs, remote mixing, volume expansion and power level control, including dual tone controls, visual volume indication, push-pull driver stage, and many others.

Design of all circuits is conservative and will withstand continuous operation for long periods. Construction is based on Underwriters' Laboratories requirements with oversized resistors, cool operating varnish impregnated transformers, conservatively rated condensers suitable for any climate condition and temperature. All tubes operate below maximum ratings, insuring long life of the entire system.

Locking type input plugs prevent accidental interruption while operator is at the remote mixing position. "No-Glare" illuminated control panel gives positive operation without glare under all conditions. Mixer pre-amplifier unit has low impedance 500 ohm output to allow operation of one to four power stages remotely from the main amplifier location.

Every step has been taken to produce a truly "super" system and make these two new *Super-Fidelity* Amplifiers not only the leaders in Webster-Chicago's 1939-40 line but also the outstanding leaders in the industry. Sound equipment has become recognized as a necessity rather than a novelty, resulting in a need for improved and more flexible equipment than has generally been available to the sound engineer and PA specialist.



Webster-Chicago at New York Fair.

Multiplicity of microphones and long lengths of microphone cable require from 4 to 8 microphone mixing circuits and low impedance lines for satisfactory performance. High fidelity undistorted power outputs of

from 30 to 280 watts or more are also necessary for best results.

Professional operation many times requires control of volume and mixing within or at the rear of the audience. This is readily and satisfactorily accomplished by the remote mixing control. To meet these large installation requirements, whether rentals or permanent installations in parks, stadiums, auditoriums and similar locations, Webster-Chicago offers two basic systems described and priced in detail on pages 4 and 5. Information is given on both the self-contained amplifiers W-4030 and W-4070 and their quick adaptability to rack and panel equipment.



Webster-Chicago at New York & San Francisco Fairs.

The voltage pre-amplifier and mixer are in one unit and power amplifier in another, both of standard rack dimensions, so that assemblies can be made having up to 8 or more microphone mixing positions, and 280 watts of power. Proper distribution of this power without loss requires transmission lines of 100 to 500 ohms, with line transformers on each speaker. An efficient output transformer can be designed to transfer high power outputs from plate impedances to these line impedances, whereas attempting to transform down to anything approaching voice coil impedances results in high power losses. The *Super-Fidelity* systems are therefore, offered only with line output impedances, and speakers equipped with transformers are required.

Webster-Chicago tapped transformers combined with the output impedances available on the *Super-Fidelity* Amplifiers allow correct impedance match of any number of speakers from one to twenty. Low hum level (below 40 db), low distortion (less than 3%) and a flat response (flat to within 1 db from 30 to 12,000 cycles) are requirements easily obtained in the *Super-Fidelity* design. Laboratory quality is offered for the first time in the *Super-Fidelity* systems, yet on a standardized basis.

## "SUPER-FIDELITY" MIXER

The W-4004 mixer is a completely self-contained 4 position mixer and pre-amplifier for remote pick-up for broadcast station or PA use. It is housed in a beautiful and rugged solid cabinet very professional in appearance.

Having a balanced line output and zero reference level meter, it is ideal for use as a radio remote pickup unit, or to feed a broadcast line simultaneously with power stages for PA work, or as a PA remote mixer where all power stages are located considerable distance from the mixer.

It is designed for use with three low impedance 200-250 ohm microphones and one high impedance announcer's microphone. The glass control panel is "No-Glare" illuminated for ease of control where lighting is poor. A monitoring jack for earphones is included.

### SPECIFICATIONS FOR W-4004

#### POWER OUTPUT

+ 6 DB

#### GAIN

70 DB

#### FREQUENCY RESPONSE

± 1 DB, 30 to 12,000 Cycles

#### TUBES (10)

5-1612, 1-6SF5, 2-6N7,  
1-6H6, 1-6X5

#### OUTPUT IMPEDANCE

500 Ohms and Output for  
Power Amplifiers

#### CONTROLS (9)

- 3—Microphones (200-250 ohms)
- 1—Microphone (5000 ohms)
- 1—Base control
- 1—Treble control
- 1—AC switch
- 1—Expansion and Compression Control
- 1—Expansion and Compression Switch

#### INPUTS (4)

- 3—200-250 Ohms
- 1—5000 Ohms

#### W-4004 SUPER-FIDELITY MIXER

List Price (less tubes).....\$215.00

Complete as described above

Shipping Wt. 40 lbs. Code: ABORT

#### KIT OF MATCHED TUBES for W-4004

List Price (less 5-1612 tubes)..... 8.25

5-RCA-1612 tubes — \$16.25 net

Shipping Wt. 4 lbs. Code: THILL

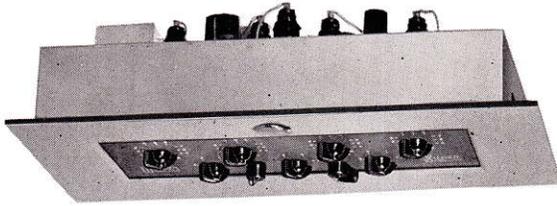


W-4004

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# "SUPER-FIDELITY" HIGH POWER AMPLIFIERS



W-4204

## MIXER PANEL

The W-4204 is the Mixer Pre-amplifier section of the W-4030 or W-4070 *Super-Fidelity* Amplifiers, except designed for rack mounting. As such, it is complete with front panel for mounting in any standard sized 19 inch rack or cabinet. The W-4204 is designed for operation with the *Super-Fidelity* 30 watt or 70 watt Power Stages only and obtains necessary plate and filament supply from these units. From one to four of either of these Power Stages can be used with each W-4204 Mixer. Specifications covering inputs is identical to the W-4030 or W-4070 amplifiers. Output impedance of the Mixer only, is 500 ohms for broadcast line and output to feed power amplifiers. Gain 70DB. Tubes used 5-1612, 1-6SF5, 1-6H6, and 2-6N7. Panel width 8 $\frac{3}{4}$  inches.

### W-4204 MIXER PRE-AMPLIFIER

List Price (less tubes)..... \$136.00  
Shipping Weight 30 lbs. Code: ALLIA

### KIT OF MATCHED TUBES for W-4204

(less 5-1612 tubes) List Price.....\$6.75  
5-RCA-1612 tubes.....\$16.25 Net

## POWER PANELS

The W-4230 and W-4270 Power Stages are the power output amplifier sections of the W-4030 and W-4070 *Super-Fidelity* Amplifier, respectively except designed for rack mounting. As such, they are complete with front panel for mounting in any standard sized 19 inch rack or cabinet. Specifications covering output power and impedance are the same as for the W-4030 and W-4070. Input impedance is for a balanced line from the W-4204 Mixer, located adjacent to or remotely from the Power Stages. Gain 50 DB. Tubes used in W-4230: 1-6N7, 2-6L6G, 1-5V4G and 1-6X5G. Tubes used in W-4270: 2-6N7, 4-6L6G, 2-5V4G and 2-6X5G. Panel width of both amplifiers 8 $\frac{3}{4}$  inches.

### W-4230 POWER AMPLIFIER

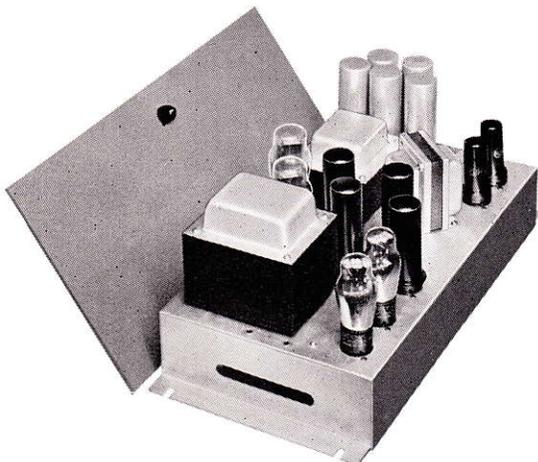
List Price (less tubes)..... \$ 85.00  
Shipping Weight 42 lbs. Code: ADVOC

### KIT OF MATCHED TUBES for W-4230 (List) ..\$12.25

### W-4270 POWER AMPLIFIER

List Price (less tubes).....\$109.00  
Shipping Weight 46 lbs. Code: AGIOT

### KIT OF MATCHED TUBES for W-4270 (List) ..\$22.25



W-4230 and W-4270

An outstanding feature of the *Super-Fidelity* amplifiers is their adaptability for rack mounting. Being of standard 19 inch rack size, the units can be removed from their cabinet and mounted directly on a rack. Many times this flexibility, particularly where additional power stages are required, allows quick change-over in the field.

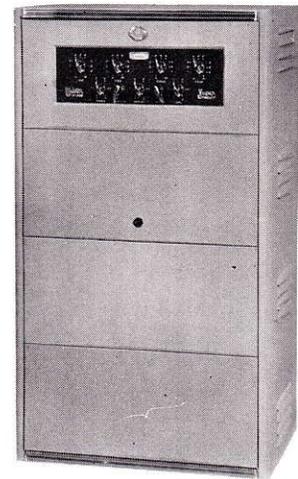
The W-4204 Mixer together with the W-4230 and W-4270 Power Stages represents a flexibility that meets all conditions. Each W-4204 Mixer will drive up to 4 power stages of either 120 or 280 watts total output. If desired 2 W-4204 Mixers may be paralleled with up to 8 Power Stages for a total output of as high as 560 watts. Whether the problem is high power, multiplicity of microphones, long microphone lines or remote mixing the *Super-Fidelity* amplifiers meet the requirement.

## RACK AND PANEL STYLE

For rental equipment the rack style is ideal. One big job may require 2 Mixers and several 70 watt Power Stages; the next week the same equipment can be split up and used to handle several smaller jobs. The use of low impedance microphones, and the laboratory quality of the amplifiers plus their availability as stock equipment for assembling custom built installations make them the unquestionable leaders in the Webster-Chicago line.

To the left are illustrated both the Mixer and Power Stage, complete with front panels as supplied from the factory on order for mounting in any 19 inch rack or cabinet such as Par Metal DL3513, C215 or similar. Offered for this type of mounting these units carry new catalog numbers and are individually priced. These units are supplied with front panels when rack mounted.

Illustrated at the right is a cabinet assembly using a Par Metal DL3513, showing the combination of a mixer and one power stage housed as one unit. Space is available for two additional power stages. The front panels are finished in grey crystal-line to match Webster-Chicago and similar rack and cabinet finishes.



## SPECIFICATIONS for W-4030 and W-4070

### POWER OUTPUT

W-4030 30 Watts  
W-4070 70 Watts

### RECOMMENDED COVERAGE for W-4030

Indoors: 5,000 to 10,000 People  
Outdoors: 35,000 Square Feet

### RECOMMENDED COVERAGE for W-4070

Indoors: 25,000 to 40,000 People  
Outdoors: 125,000 Square Feet

### GAIN

106 DB

### FREQUENCY RESPONSE

± 1 DB, 30 to 12,000 Cycles

### TUBES

W-4030: (14)  
5-RCA-1612, 3-6N7, 1-6SF5  
1-6H6, 1-5V4G, 2-6L6G, 1-6X5G  
W-4070: (19)  
5-RCA-1612, 4-6N7, 1-6SF5  
1-6H6, 2-5V4G, 4-6L6G, 2-6X5G

### WEIGHT

W-4030 Shipping Wt. 70 lbs.  
W-4070 Shipping Wt. 75 lbs.

### CONTROLS (9)

3 — Microphones  
1 — Phono-Microphone  
1 — Bass  
1 — Treble  
1 — AC Switch  
1 — Expansion and Power Level Control  
1 — Expansion and Power Level Switch

### INPUTS (4)

3 — Low Impedance Microphones 200-250 Ohms  
1 — Phono-Microphone, 20,000 Ohms and 1/2 Megohm

### OUTPUT IMPEDANCE

100, 125, 167, 250, 500 Ohms  
500 Ohms, Broadcast Line

### POWER CONSUMPTION

W-4030 250 Watts 117 Volts  
50-60 Cycle  
W-4070 400 Watts 117 Volts  
50-60 Cycle

### DIMENSIONS

22" x 20" x 11 $\frac{1}{2}$ "

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# "SUPER-FIDELITY" HIGH POWER SYSTEMS



- Low-Impedance Microphone Inputs
- Three Position Remote Mixer Control
- Four Electronic Mixer Input Circuits
- Fidelity Reproduction Expander
- Power Level Control
- "No-Glare" Illuminated Glass Panel
- Walnut Cabinet
- Push Pull Driver Stage
- Balanced Mixer Output for 500 Ohm Line
- Dual Tone Control
- Snap-Lock Input Plugs
- Removable Panels for Standard Relay Rack
- Remotely Operated Power Stages



W-4030 and W-4070

**APPLICATION** — The W-4030 *Super-Fidelity* 30 Watt System has the widest application of any system heretofore offered. It fills the need in those smaller auditoriums, ballrooms, nightclubs, etc., where long microphone lines, several microphones and peculiar acoustical conditions demand a special type of equipment that will give high quality with an extremely low hum level. Volume expansion of phonograph reproduction with the high speed positive expander of the W-4030 results in a life-like reproduction with full expression of the original. Highest quality reproduction can be obtained by substitution of a W-3001 or W-3002 Reproducer in either system in place of the 3914-A Speakers.

The W-4070 *Super-Fidelity* 70 Watt System for those high powered requirements in large indoor auditoriums, arenas, and ballrooms, and outdoor stadiums, parks, athletic fields, fair grounds and similar locations where long microphone lines, power level control for smooth even level of speech, and flexibility of operation are primary factors. Combinations to give up to 280 watts or more and 4 to 8 microphone mixing circuits, with remote mixing, allow handling of any type of sound installation, and crowds of up to and over 100,000 people.

Through proper selection of speakers and baffles effective distribution of sound can be obtained. Using high power directional type reproducers will result in concentrated distribution whereas a larger number of lower power speakers will diffuse the sound over a wide area. The 70 watt power stages may be located at distant points, connected remotely by means of a 2-conductor shielded line to the mixer, voltage preamplifier unit, due to its low impedance line output.

**EQUIPMENT** — The Webster-Chicago W-4030 and W-4070 *Super-Fidelity* Systems are built around an amplifier of unique design and great flexibility. The amplifier is made up of two chassis mounted in a very attractive solid walnut cabinet, with flush mounted controls.

"No-Glare" illuminated control panel allows operation under all conditions of light or in complete darkness. Mixer pre-amplifier is mounted at front of cabinet at inclined angle for ease of operation. To the rear of the mixer, the 30 Watt or 70 Watt power amplifier is located. Mixer and power stages can be mounted directly in 19 inch rack.

Input receptacles and plugs are 4-prong locking type. Receptacle is included for the 3-position remote mixer W-903 available for use with the *Super-Fidelity* models. The controls include three low impedance microphones, with remote mixing, one phono or high impedance microphone, dual tone controls for acoustic compensation, expansion-power level switch with accompanying variable control and AC power switch. The amplifier driver stage is push-pull type assuring full 30 Watts or 70 Watts of output power without distortion.

The three low impedance inputs allow practically unlimited lengths of microphone cable without affecting the performance of the microphones and eliminating tendency for hum and interference pickup.

The W-3914-A speaker chassis supplied are capable of handling power inputs of 18 to 20 Watts each, or more than enough to capably handle the full output of the amplifier. A choice of several types of baffles is given on the accessory pages for use with the W-3914-A chassis. For true *Super-Fidelity* reproduction, the W-3001 or W-3002 reproducers are recommended. The W-3001, while not weatherproof, is applicable for portable outdoor work, and for the first time makes it possible to supply high fidelity, high powered outdoor equipment.

## LIST PRICES

### W-4030

<b>W-4030 SUPER-FIDELITY AMPLIFIER</b>	
only (less tubes).....	\$262.00
Shipping Weight 70 lbs. Code: ALMON	
<b>FD-4030 SUPER-FIDELITY SYSTEM.....</b>	<b>382.00</b>
Shipping Weight 138 lbs. Code: AMATI	
1 W-4030 Amplifier (less tubes)	
2 W-3914-A PM 12" Speakers (less baffles)	
1 W-1245-L Low Impedance Dynamic Microphone	
1 25-ft. Shielded Microphone Cable & Plug	
1 W-1122 Extension Floor Stand	
(Note: see page 18 for selection of baffles)	
<b>FR-4030 SUPER-FIDELITY SYSTEM.....</b>	<b>394.50</b>
Shipping Weight 138 lbs. Code: AMPHI	
Same as FD-4030 except with W-1243-L	
Low Impedance Velocity Ribbon Microphone	
in place of W-1245-L Dynamic Microphone	
<b>KIT OF MATCHED TUBES for W-4030</b>	
(less 5-1612 tubes).....	19.00
5-RCA-1612 tubes . . . . .	\$16.25 net.
Shipping Weight 4 lbs. Code: TEMSO	
<b>W-903 3 POSITION REMOTE MIXER</b>	
<b>CONTROL.....</b>	<b>15.00</b>
for use with either of the above systems	
(see page 6 for description) Code: CHIKA	

### W-4070

<b>W-4070 SUPER-FIDELITY AMPLIFIER</b>	
only (less tubes).....	\$286.00
Shipping Weight 75 lbs. Code: AMVLE	
<b>FD-4070 SUPER-FIDELITY SYSTEM.....</b>	<b>482.50</b>
Shipping Weight 185 lbs. Code: ANCES	
1 W-4070 Amplifier (less tubes)	
4 W-3914-A PM 12" Speakers (less baffles)	
1 W-1245-L Low Impedance Dynamic Microphone	
1 25-ft. Shielded Microphone Cable & Plug	
1 W-1122 Extension Floor Stand	
(Note: see page 18 for selection of baffles)	
<b>FR-4070 SUPER-FIDELITY SYSTEM.....</b>	<b>495.00</b>
Shipping Weight 185 lbs. Code: ANNUI	
Same as FD-4070 except with W-1243-L	
Low Impedance Velocity Ribbon Microphone	
in place of W-1245-L Dynamic Microphone	
<b>KIT OF MATCHED TUBES for W-4070</b>	
(less 5-1612 tubes).....	29.00
5-RCA-1612 tubes . . . . .	\$16.25 net.
Shipping Weight 4 lbs. Code: TERCE	
<b>W-903 3 POSITION REMOTE MIXER</b>	
<b>CONTROL.....</b>	<b>15.00</b>
for use with any of the above systems	
(see page 6 for description) Code: CHIKA	

"The Sound of Tomorrow" . . . **WEBSTER - CHICAGO**



# THE "MASTER" SERIES AMPLIFIER SYSTEMS

## Featuring Remote Mixing

- Remote Mixing of 2 or 3 Microphones
- Four-Position Electronic Mixer
- Volume Expansion
- Dual Tone Controls
- Power Outputs Ranging from 20 to 75 Watts
- 30-Watt Combination 6V DC — 117V AC System
- Conservative Ratings at Low Distortion

Every Sound Engineer and Public Address Specialist often requires equipment of extreme flexibility and greater power for installations that cannot be handled satisfactorily by standard amplifier systems. To fill this need Webster-Chicago offers the new *Master* series — a line of amplifier systems with all the facilities required for most any job.

The objective of Webster-Chicago engineers in designing the *Master* series was to produce the best line of commercial amplifiers available to the market. There has been no compromise with quality in the effort to attain a properly balanced system from microphone to speakers. Every feature indicated by field experience as being desirable has been incorporated.

As a further modernizing accomplishment attention is directed to the amplifier and speaker carrying cases for the portable systems. Note the neat

and compact appearance of these cases. Especially the unique new method of including a full length floor stand under the false bottom on which amplifier is mounted. The *Master* line sets a new and fast pace in design and performance and can truly be styled a *Master-piece*.

Following the *Master* series is a presentation of the "Standard" series of amplifier systems. While it does not include all the "plus" features of the *Master* line, the "Standard" line contains all the important operating needs for the average requirement. Without sacrifice in quality or performance popularly priced units have been attained. Systems range from 8 to 30 watts including a 20-watt combination 6V DC and 110V AC system. Features include "No-Glare" illuminated control panels, multi-stage inverse feed-back, Underwriters' Laboratories approval, and many others.

### REMOTE MIXER CONTROLS

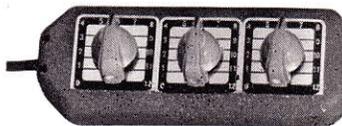
Probably the most outstanding feature of the *Master* series is remote mixing of microphones. The main controls are adjusted for maximum volume desired or just under the feed-back position of the system, with the remote mixer controls all turned to the full "on" position. The remote mixer controls are then turned off and the control taken to its remote location where with just the touch of a hand each microphone can be increased or decreased in level to the right amount or mixed as desired.

The remote mixer allows placing the amplifier at the most convenient location with the remote controls at any desired location "in" or to the rear of the audience within "hearing" distance of the system. Volume control is positive and noiseless, without hum pickup difficulties and does not require shielded cable. The remote mixer control units are of simple construction, compact enough to fit in the

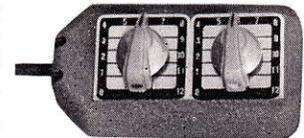
palm of the hand, and are of the plug-in type. The Amplifiers may be operated with or without these controls.

The remote control of sound emanating from the loud speakers of any P A system takes out all the guess work as to the operator's knowledge of the kind of coverage his system is giving. No longer need the audience suffer from the unfavorable effects of sound that is too loud, or straining their ears for lack of enough volume. Poor tone from an overloaded system would be quickly corrected if the operator were seated within the audience where he could instantaneously correct the condition.

Many times the sound amplification of an orchestra or band has received unfavorable comment due to the improper mixing of 2 or 3 microphones. If an operator is in the audience to hear the results as they hear it, with a remote mixer control in his hand, any unbalanced mixing can be immediately corrected.



W-903



W-902

### LIST PRICES

- W-902 2 POSITION REMOTE MIXER CONTROL. \$10.00  
Shipping weight 2 lbs. Code: CAIRN  
Complete with 50' of 4-conductor cable and plug.
- W-903 3 POSITION REMOTE MIXER CONTROL. 15.00  
Shipping weight 2 lbs. Code: CHIKA  
Complete with 50' of 5-conductor cable and plug.
- W-1164 FOUR CONDUCTOR UNSHIELDED CABLE  
Code: CAPIL..... \$6.00 per 100 ft.  
For use as extension cable for W-902 control.
- W-1165 FIVE CONDUCTOR UNSHIELDED CABLE  
Code: CARBO..... \$7.50 per 100 ft.  
For use as extension cable for W-903 control.

### EQUIPMENT

The W-902 and W-903 remote mixer controls are assembled in attractive die-cast cases, finished in grey crystalline, complete with escutcheon, control knobs and 50 foot cable and plug. The W-902 is used with W-920 and W-929 *Master* systems. The W-903 is used with W-930, W-945 and W-975 *Master* systems and the *Super-Fidelity* systems.

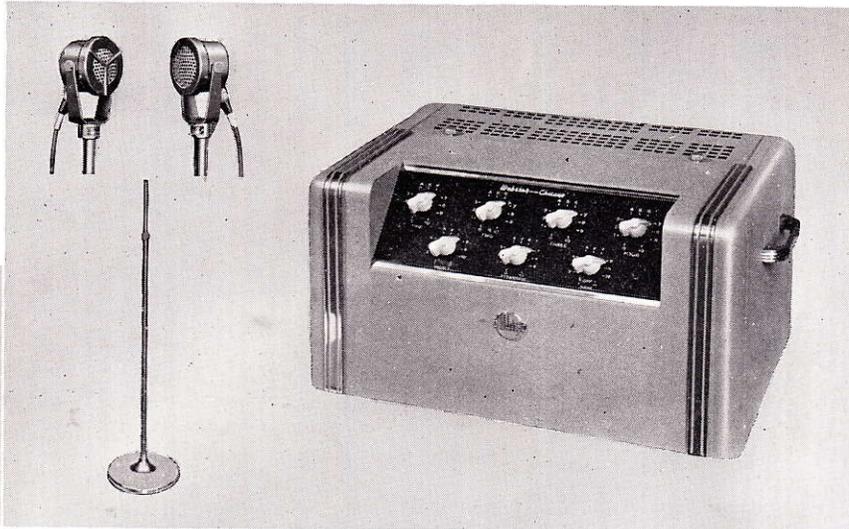
These remote mixer controls are for microphones only. When used with fixed systems for permanent installations, controls may be permanently mounted to a chair arm, post, wall or similar convenient location.

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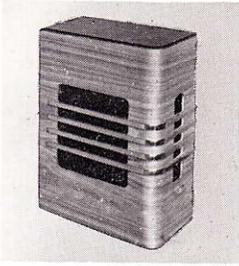
# 75 WATT "MASTER" AMPLIFIER SYSTEMS



- Three Position Remote Control Mixer
- Four Electronic Mixer Input Circuits
- Multi-Stage Inverse Feed Back Circuit
- Dual Tone Controls

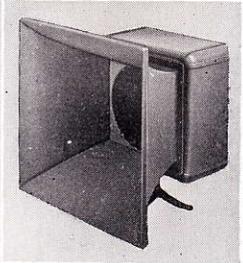


- "No-Glare" Illuminated Glass Panel
- Fidelity Reproduction Expander
- Snap-Lock Input Plugs
- Variable Output



W-2925

W-975 Master Amplifier and Accessories



W-2618

**EQUIPMENT**—The W-975 *Master* high powered amplifier is an outstanding achievement designed to operate in areas subjected to high prevailing noise levels. Plenty of reserve power throughout the entire frequency range.

Illuminated "No-Glare" glass panel is an attractive background for the controls of the four-position electronic mixer — three microphone and one phono input.

High speed volume expansion is an integral part of this system. An unusually low percentage of distortion is attained with the incorporation of the multi-stage inverse feed-back. A multiple tapped output transformer permits the connection of a number of loud speakers without the need of special matching devices. Variation of tone quality for the reduction of acoustical feed-back is accomplished by means of the dual tone control.

Included in the W-975 *Master* amplifier is provision for the remote mixing of three microphone circuits. The remote operation of the system can be done as far as 1000 feet from the amplifier.

**APPLICATION** — The *Master* W-975 is recommended for voice reinforcement and phonograph reproduction of original fidelity and expression at large outdoor installations such as football fields, cemeteries, baseball park, airports, outdoor skating rinks, carnivals, fairs, race tracks, and large construction projects. Up to three W-75 power stages can be added to the W-975 amplifier resulting in a total of 300 watts of power. Each power stage output should have its separate speaker load, W-75 output circuits should not be paralleled.

## SPECIFICATIONS

### POWER OUTPUT

75 Watts

### RECOMMENDED COVERAGE

Indoors: 25,000 to 40,000 People  
Outdoors 125,000 Square Feet

### GAIN

Microphone — 125 DB  
Phono — 85 DB

### FREQUENCY RESPONSE

± 1½ DB, 40 to 10,000 Cycles

### TUBES (16)

4-6L7, 1-6H6, 4-6L6, 1-6X5,  
1-6C5, 3-6N7, 2-5V4G

### WEIGHT

Shipping Weight 70 lbs.

### CONTROLS (7)

- 3 — Microphones
- 1 — Phono or Microphone
- 1 — Bass with Power Switch
- 1 — Treble
- 1 — Expansion

### INPUTS (4)

- 3 — Microphones, 2 Megohms
- 1 — Phono-Microphone, 20,000 Ohms & ½ Megohm.

### OUTPUT IMPEDANCES

4, 8, 250, and 500 Ohms

### POWER CONSUMPTION

260 Watts 117 Volts 50-60 Cycles

### DIMENSIONS

9½" x 16" x 20"

## LIST PRICES

### W-975 MASTER AMPLIFIER only

(less tubes).....\$170.00

Shipping Weight 70 lbs. Code: ANTIM

### FX-975 FIXED MASTER SYSTEM..... 307.50

Shipping Weight 165 lbs. Code: APHID

- 1 W-975 Amplifier (less tubes)
  - 4 W-3915 PM 12" Speakers (less baffles)
  - 1 W-1236 Crystal Microphone
  - 1 25-ft. Shielded Microphone Cable & Plug
  - 1 W-1122 Extension Floor Stand
- (Note: see page 18 for selection of baffles)

### FD-975 FIXED MASTER SYSTEM..... 313.50

Shipping Weight 166 lbs. Code: APPEL

- Same as FX-975 except with W-1245 Dynamic Microphone in place of W-1236 Crystal Microphone

### FR-975 FIXED MASTER SYSTEM..... 316.00

Shipping Weight 166 lbs. Code: AQUAT

- Same as FX-975 except with W-1242 Velocity Ribbon Microphone in place of W-1236 Crystal Microphone

### KIT OF MATCHED TUBES for W-975... 30.50

Shipping Weight 4 lbs. Code: TERMA

### W-903 3 POSITION REMOTE MIXER CONTROL..... 15.00

For use with any of the above systems (see page 6 for description) Code: CHIKA

## W-75 "MASTER" BOOSTER AMPLIFIER

The W-75 is offered as an additional 75 watt power stage for operation in conjunction with the W-975 *Master* amplifier to give 150 watts total output. It is housed in companion case finished in Webster-Chicago grey crystalline. The W-975 is equipped with output receptacle for attaching the input of the W-75, using single conductor shielded cable. The two amplifier outputs should not be paralleled but connected to separate speaker loads. Output impedances same as W-975. Tubes: 1-6C5, 2-6N7, 4-6L6G, 2-6X5G, and 2-5V4G.

### W-75 MASTER BOOSTER AMPLIFIER

(less tubes).....\$110.00

Shipping Weight 60 lbs. Code: ANTAG  
Complete as described above.

### KIT OF MATCHED TUBES for W-75 BOOSTER..... 20.75

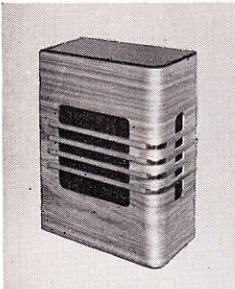
Shipping Weight 3 lbs. Code: THEOL

"The Sound of Tomorrow" . . . WEBSTER - CHICAGO

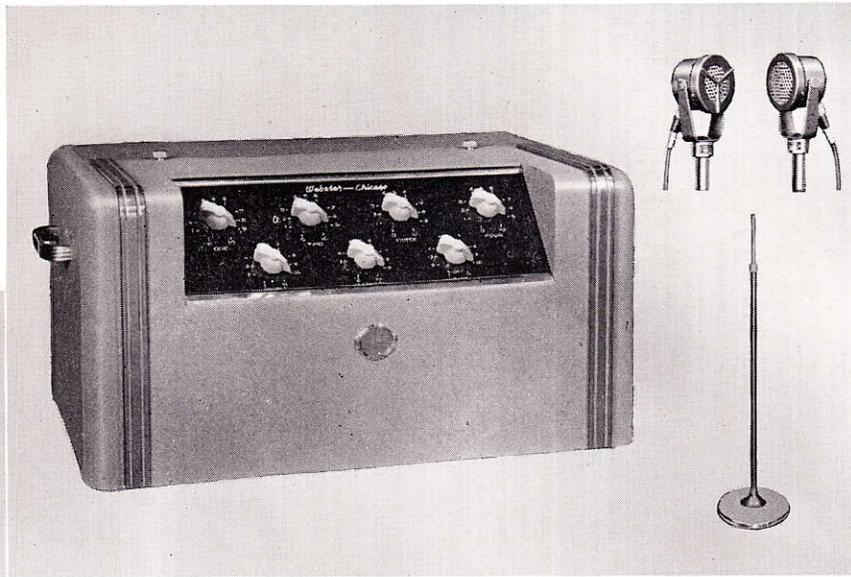


# 45 WATT "MASTER" AMPLIFIER SYSTEMS

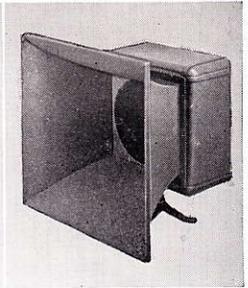
- Three Position Remote Mixer Control
- Four Electronic Mixer Input Circuits
- Multi-Stage Inverse Feed Back Circuit
- Dual Tone Controls



W-2925



W-945 Master Amplifier and Accessories



W-2618

- "No-Glare" Illuminated Glass Panel
- Fidelity Reproduction Expander
- Snap-Lock Input Plugs
- Variable Output

## LIST PRICES

W-945	MASTER AMPLIFIER only (less tubes).....	\$145.00
	Shipping Wt. 65 lbs. Code: ARCHE	
FX-945	FIXED MASTER SYSTEM.....	282.50
	Shipping Wt. 160 lbs. Code: ARIST	
	1 W-945 Amplifier (less tubes)	
	4 W-3915 PM 12" Speakers (less baffles)	
	1 W-1236 Crystal Microphone	
	1 25-ft. Shielded Microphone Cable and Plug	
	1 W-1122 Extension Floor Stand	
	(Note: see page 18 for selection of baffles)	
FD-945	FIXED MASTER SYSTEM.....	288.50
	Shipping Wt. 161 lbs. Code: ARIET	
	Same as FX-945 except with W-1245 Dynamic Microphone in place of W-1236 Crystal Microphone	
FR-945	FIXED MASTER SYSTEM.....	291.00
	Shipping Wt. 161 lbs. Code: ASPHA	
	Same as FX-945 except with W-1242 Velocity Ribbon Microphone in place of W-1236 Crystal Microphone	
	KIT OF MATCHED TUBES for W-945..	25.00
	Shipping Wt. 4 lbs. Code: TERRA	
W-903	3 POSITION REMOTE MIXER CONTROL & 50 FT. CABLE	15.00
	For use with any of the above systems (see page 6 for description) Code: CHIKA	

**APPLICATION**—The W-945 *Master* is a high quality amplifier recommended for small athletic fields, outdoor beer gardens, auditoriums, gymnasiums, churches, ballrooms, night clubs, and similar locations. Its features of remote mixing and inputs for four microphones together with volume expansion on record reproduction recommend it particularly for auditoriums and locations where high quality reproduction under good acoustical conditions is desired. One or two high fidelity W-3001 or W-3002 reproducers or two of the W-3000-A reproducers together with the W-945 amplifier will make an ideal installation for auditoriums or other installations demanding the highest quality of reproduction.

**EQUIPMENT**—The W-945 *Master* amplifier has been designed for the most discriminating users of public address equipment. Four position electronic mixing, 3-position remote mixing control, illuminated "No-Glare" glass panel and dual high and low tone compensation, with expansion on phonograph input and multi-tapped output transformer are a few of the features incorporated in this amplifier.

With 45 Watts of undistorted power output this amplifier can be used in a large variety of installations, where the power requirements are above average.

Three position remote mixing is possible from any point of vantage in the audience or within hearing distance of the speakers.

Distortion is reduced to a minimum through the use of the multi-stage inverse feed-back circuit.

All accessories furnished with the W-945 *Master* system are coordinated to form a highly efficient high power public address system.

## SPECIFICATIONS

### POWER OUTPUT

45 Watts

### RECOMMENDED COVERAGE

Indoors: 10,000 to 25,000 People  
Outdoors: 60,000 Square Feet

### GAIN

Microphone — 123 DB  
Phono — 86 DB

### FREQUENCY RESPONSE

± 1½ DB, 40 to 10,000 Cycles

### TUBES (13)

4-6L7, 1-6H6, 2-6L6G, 1-6X5,  
1-6C5, 3-6N7, 1-5V4G

### WEIGHT

Shipping Weight 65 lbs.

### CONTROLS (7)

3 — Microphones  
1 — Phono-Microphone  
1 — Bass with Power Switch  
1 — Treble  
1 — Expansion

### INPUTS (4)

3 — Microphones, 2 Megohms  
1 — Phono-Microphone,  
20,000 Ohms & ½ Megohm

### OUTPUT IMPEDANCES

4, 8, 250, and 500 Ohms

### POWER CONSUMPTION

210 Watts, 117 Volts 50-60 Cycle

### DIMENSIONS

9½" x 13½" x 18"

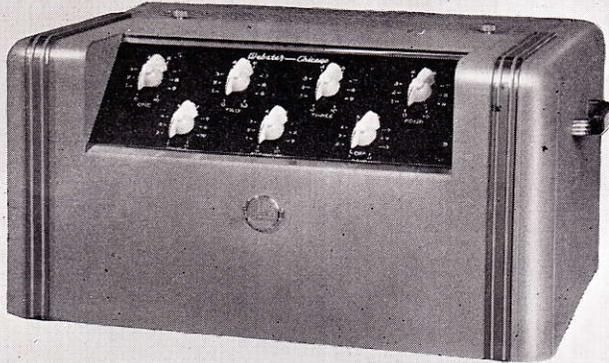
**WEBSTER - CHICAGO** ... "The Sound of Tomorrow"

# 30 WATT "MASTER" AMPLIFIER SYSTEMS



W-2925

- Three Position Remote Mixer Control
- Four Electronic Mixer Input Circuits
- Multi-Stage Inverse Feed Back Circuit
- Dual Tone Controls



W-930 Master Amplifier and Accessories

- "No-Glare" Illuminated Glass Panel
- Fidelity Reproduction Expander
- Snap-Lock Input Plugs
- Base Reflex Duplex Speaker Cases



W-5030

**APPLICATION**—The W-930 *Master* semi-portable system is ideal for handling crowds of up to 10,000 people in assembly halls, clubs, churches, ballrooms, etc. Also suitable for equivalent temporary outdoor installations. The fixed system is ideal for schools, churches, restaurants, night clubs and similar locations where a permanent installation complete with remote mixing and exceptionally fine phonograph reproduction are desired.

Dual tone control allows compensation of the high and low frequencies independently to meet acoustical conditions peculiar to those locations where sound reinforcement has been a difficult problem.

**EQUIPMENT**—Such features as four input positions, dual tone compensation, volume expansion, and 3-position remote mixer have been incorporated in this 30 Watt *Master* amplifier which is available in either semi-portable or fixed systems.

Speakers furnished with these systems are of heavy duty 12" type.

Three high-impedance microphone inputs and one phonograph input with high speed volume expansion for high quality reproduction are incorporated.

Mixing of the three microphone channels from a point anywhere within range of the speaker is accomplished with the three-position remote mixer.

"No-Glare" illuminated panel permits normal operation of controls under all lighting conditions.

Distortion has been reduced to a minimum through the use of multi-stage inverse feed-back. The W-930 semi-portable *Master* systems include carrying case for speakers only. This case forms baffles of the bass reflex type and are particularly designed for ruggedness and portability.

The W-930 fixed *Master* systems are similar to the semi-portable *Master* systems except that speakers are mounted in modern walnut baffles, also of the bass reflex type. Furnished complete with mounting hardware. With the incorporation of a multiple-tapped output transformer on each speaker any reasonable number of speakers may be connected to this system.

## SPECIFICATIONS

### POWER OUTPUT

30 Watts

### RECOMMENDED COVERAGE

Indoors: 5,000 to 10,000 People  
Outdoors: 35,000 Square Feet

### GAIN

Microphone — 125 DB  
Phono — 85 DB

### FREQUENCY RESPONSE

± 1½ DB, 40 to 10,000 Cycles

### TUBES (12)

4-6L7, 1-6H6, 2-6L6G,  
1-6C5, 3-6N7, 1-5V4G

### WEIGHT

Shipping 65 lbs.

### CONTROLS (7)

- 3 — Microphones
- 1 — Phono-Microphone
- 1 — Bass with Power Switch
- 1 — Treble
- 1 — Expansion

### INPUTS (4)

- 3 — Microphones, 2 Megohms
- 1 — Phono-Microphone, 20,000 Ohms & ½ Megohm

### OUTPUT IMPEDANCES

4, 8, 250, and 500 Ohms

### POWER CONSUMPTION

175 Watts, 117 Volts 50-60 Cycles

### DIMENSIONS

9½" High x 13½" x 18"

## LIST PRICES

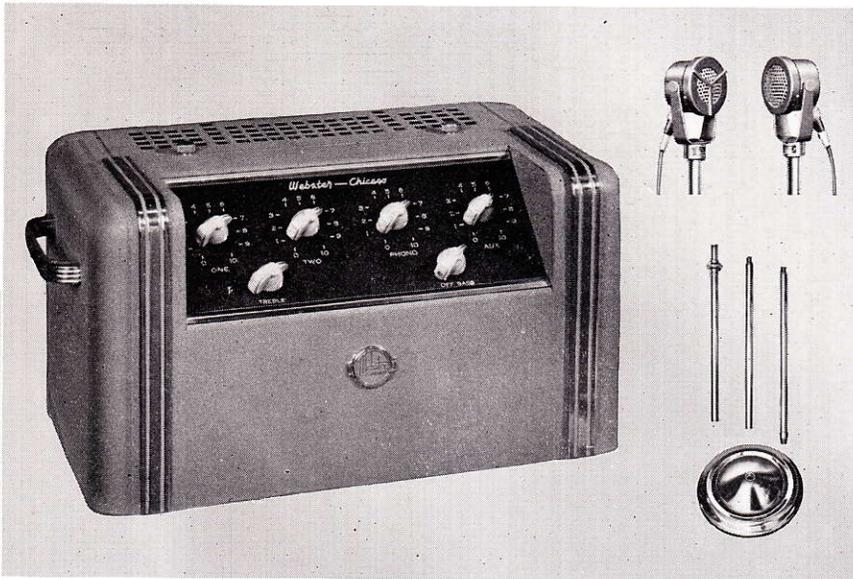
W-930 MASTER AMPLIFIER only (less tubes).....	\$119.50
Shipping Weight 65 lbs. Code: ASTRO	
PX-930 SEMI-PORTABLE MASTER SYSTEM.....	232.00
Shipping Weight 135 lbs. Code: ATLAN	
1 W-930 Amplifier (less tubes)	
2 W-3913 PM 12" Speakers	
2 35-ft. Speaker Cables & Plugs	
1 W-1236 Crystal Microphone	
1 25-ft. Shielded Microphone Cable & Plug	
1 W-1122 Extension Floor Stand	
1 W-5030 Duplex Speaker Carrying Case	
PD-930 SEMI-PORTABLE MASTER SYSTEM.....	238.00
Shipping Weight 136 lbs. Code: ATHEN	
Same as PX-930 except with W-1245 Dynamic Microphone in place of W-1236 Crystal Microphone	
PR-930 SEMI-PORTABLE MASTER SYSTEM.....	240.50
Shipping Weight 136 lbs. Code: ATHLE	
Same as PX-930 except with W-1242 Velocity Ribbon Microphone in place of W-1236 Crystal Microphone	
FX-930 FIXED MASTER SYSTEM.....	246.00
Shipping Weight 133 lbs. Code: ATMOS	
1 W-930 Amplifier (less tubes)	
2 W-3913 PM 12" Speakers	
2 W-2925 Speaker Baffles	
1 W-1236 Crystal Microphone	
1 25-ft. Shielded Microphone Cable & Plug	
1 W-1122 Extension Floor Stand	
FD-930 FIXED MASTER SYSTEM.....	252.00
Shipping Weight 134 lbs. Code: ATONY	
Same as FX-930 except with W-1245 Dynamic Microphone in place of W-1236 Crystal Microphone	
FR-930 FIXED MASTER SYSTEM.....	254.50
Shipping Weight 134 lbs. Code: ATROC	
Same as FX-930 except with W-1242 Velocity Ribbon Microphone in place of W-1236 Crystal Microphone	
KIT OF MATCHED TUBES for W-930..	21.00
Shipping Weight 4 lbs. Code: TETRA	
W-903 3 POSITION REMOTE MIXER CONTROL & 50 FT. CABLE	15.00
For use with any of the above systems (see page 6 for description) Code: CHICA	

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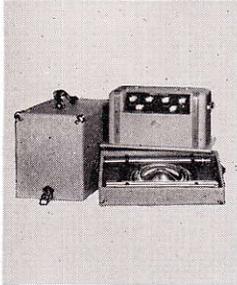


# 20 WATT "MASTER" AMPLIFIER SYSTEMS

- Two Position Remote Mixer Control
- Four Electronic Mixer Input Circuits
- "No-Glare" Illuminated Glass Panel
- Dual Tone Controls

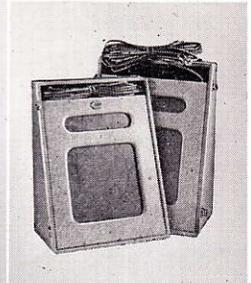


- Base Reflex Duplex Speaker Case
- Multi-Stage Inverse Feed Back Circuit
- Snap-Lock Input Plugs
- Portable and Fixed Systems



W-5031 (open)

W-920 Master Amplifier and Accessories



W-5030

## LIST PRICES

W-920	MASTER AMPLIFIER only.....	\$ 79.50
	(less tubes)	
	Shipping Weight 35 lbs. Code: AMATE	
PX-920	PORTABLE MASTER SYSTEM	213.00
	Shipping Weight 90 lbs. Code: ALTRU	
	1 W-920 Amplifier (less tubes)	
	2 W-3913 PM 12" Speakers	
	2 35-ft. Speaker Cables & Plugs	
	1 W-1236 Crystal Microphone	
	1 25-ft. Shielded Microphone Cable & Plug	
	1 W-1121-A Portable Floor Stand	
	1 W-5030 Duplex Speaker Carrying Case	
	1 W-5031 Amplifier Carrying Case	
PD-920	PORTABLE MASTER SYSTEM	219.00
	Shipping Weight 91 lbs. Code: ARRIS	
	Same as PX-920 except with	
	W-1245 Dynamic Microphone in place	
	of W-1236 Crystal Microphone	
PR-920	PORTABLE MASTER SYSTEM	221.50
	Shipping Weight 91 lbs. Code: ARTER	
	Same as PX-920 except with	
	W-1242 Velocity Ribbon Microphone	
	in place of W-1236 Crystal Microphone	
FX-920	FIXED MASTER SYSTEM.....	206.00
	Shipping Weight 85 lbs. Code: ARTIS	
	1 W-920 Amplifier (less tubes)	
	2 W-3913 PM 12" Speakers	
	2 W-2925 Speaker Baffles	
	1 W-1236 Crystal Microphone	
	1 25-ft. Shielded Microphone Cable & Plug	
	W-1122 Extension Floor Stand	
FD-920	FIXED MASTER SYSTEM.....	212.00
	Shipping Weight 86 lbs. Code: ASSAU	
	Same as FX-920 except with	
	W-1245 Dynamic Microphone in place	
	of W-1236 Crystal Microphone	
FR-920	FIXED MASTER SYSTEM.....	214.50
	Shipping Weight 86 lbs. Code: ASTRI	
	Same as FX-920 except with	
	W-1242 Velocity Ribbon Microphone	
	in place of W-1236 Crystal Microphone	
KIT OF MATCHED TUBES for W-920..		15.50
	Shipping Weight 3 lbs. Code: TARTA	
W-902	2 POSITION REMOTE MIXER CONTROL & 50 FT. CABLE	10.00
	For use with any of the above systems	
	(see page 6 for description) Code: CAIRN	

**APPLICATION** — The W-920 is a truly Deluxe Portable Sound System. A four position mixer, remote mixer control, and base reflex type speakers result in a flexible high quality system. It assembles in two carrying cases, easily picked up and transported by a single person. Ideal for a school or college to use as a utility system, for a dealer or P. A. Specialist to use for rentals, or for undertakers, lecturers, orchestras and similar users who require a completely portable deluxe system.

The fixed systems are recommended for permanent installations in schools, nightclubs, assembly and lecture rooms of all type.

**EQUIPMENT** — The W-920 Master amplifier is offered in a variety of portable and permanent systems. Illuminated "No-Glare" glass panel allows convenient operation regardless of lighting conditions. Electronic mixing of the two high-gain microphones and two low-gain auxiliary circuits. Dual tone compensation allows complete control of bass and treble independently for perfect operation under the most adverse acoustical conditions. Snap-lock input plugs prevent cables from being accidentally disconnected at a critical moment.

Two position remote mixer control makes it possible to independently control two microphones simultaneously from a point anywhere within the audible range of the loud speakers.

Both portable and fixed systems are furnished complete with bass reflex type speaker baffles. The heavy duty speaker baffles and speakers furnished with these systems are capable of handling the full output of the amplifier. In the portable system the rugged and attractive carrying case for the amplifier also houses the microphone and cable, full length floor stand and remote mixer. The speaker carrying case of matched design includes space for the two 35-ft. speaker cables.

## SPECIFICATIONS

**POWER OUTPUT**  
20 Watts.

**RECOMMENDED COVERAGE**  
Indoors: 3,000 to 5,000 People  
Outdoors: 25,000 Square Feet

**GAIN**  
Microphone — 130 DB  
Phono — 80 DB

**FREQUENCY RESPONSE**  
± 1½ DB, 40 to 10,000 Cycles

**TUBES (8)**  
2-6L7, 3-6N7, 2-6L6G, 1-5V4G

**DIMENSIONS**  
9½" High x 9" x 14¾"

**WEIGHT**  
Shipping Weight 35 lbs.

**CONTROLS (6)**  
2 — Microphones  
1 — Phono  
1 — Auxiliary  
1 — Treble  
1 — Bass with Power Switch

**INPUTS (4)**  
2 — Microphone, 2 Megohms  
1 — Phono, 20,000 Ohms and 100,000 Ohms.  
1 — Auxiliary, 20,000 Ohms and 100,000 Ohms

**OUTPUT IMPEDANCES**  
4, 8, 250, and 500 Ohms

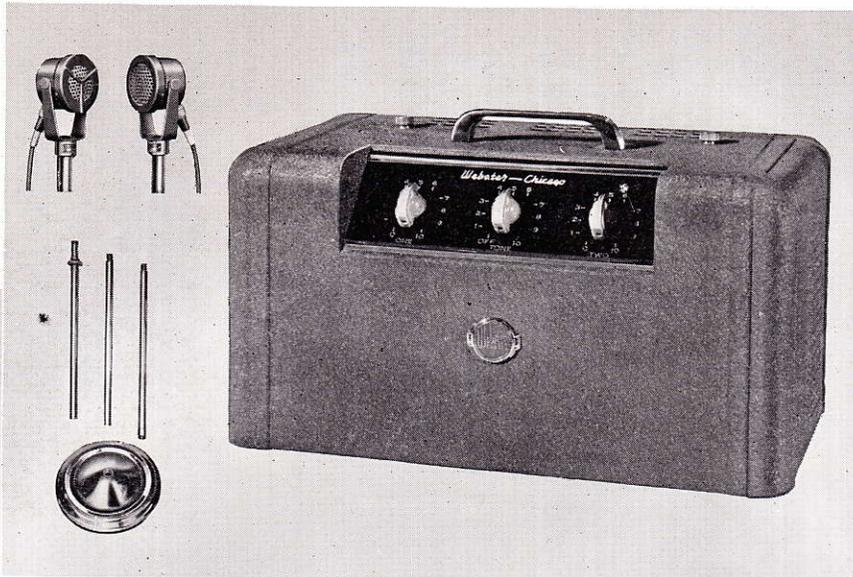
**POWER CONSUMPTION**  
125 Watts 117 Volts 50-60 Cycles

**WEBSTER - CHICAGO... "The Sound of Tomorrow"**

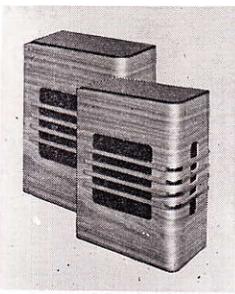
# 30 WATT AMPLIFIER SYSTEMS



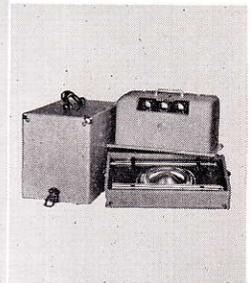
- "No-Glare" Illuminated Glass Panel
- Base Reflex Duplex Speaker Case
- Two Electronic Mixer Input Circuits



- Multi-Stage Inverse Feed Back Circuit
- Snap-Lock Input Plugs
- Underwriters' Laboratories Approved
- Portable and Fixed Systems



W-2923



W-5031 (open)

W-830 Amplifier and Accessories

**APPLICATION** — The W-830 is a completely portable high powered system recommended for orchestras, lectures, carnivals, large Bingo games, and for school and college utility purposes. The fixed systems are also suggested for call systems in railroad stations and bus terminals, for athletic fields, for churches, auction rooms, night clubs, and similar locations where a powerful yet economical system is needed. The majority of indoor installations can be handled by these powerful and compact 30 watt systems.

**EQUIPMENT** — The W-830 amplifier is used as a base for several systems designed for both portable and permanent installation. Indirectly illuminated "No-Glare" glass control panel assures perfect control of equipment without dependence on outside lighting conditions. Electronic mixing circuit allows the use of two high impedance microphones, combining their output within the amplifier to insure perfect blending and full quality.

Such safety features as self-contained fuse, snap-lock input plugs, heavy duty speaker cables and plugs, give these systems the ability to withstand an unusual amount of usage and rough handling. Heavy duty permanent magnet speakers are contained in bass reflex type baffles, resulting in a full rich tone quality.

Portable systems include all the necessary components conveniently contained in two attractive luggage type carrying cases — amplifier and microphone with accessories in one, and speakers with cables in the other.

Fixed systems are furnished complete with modernistic walnut speaker baffles that will harmonize with practically all surroundings. Multi-tapped output transformer allows perfect match of any reasonable number of speakers.

## SPECIFICATIONS

### POWER OUTPUT

30 Watts.

### RECOMMENDED COVERAGE

Indoors: 5,000 to 10,000 People  
Outdoors: 35,000 Square Feet.

### GAIN

Microphone — 130 DB  
Phono — 81 DB

### FREQUENCY RESPONSE

± 2 DB, 50 — 10,000 Cycles

### TUBES (7)

2-6J7, 2-6N7, 2-6L6G, 1-5V4G

### CONTROLS (3)

2 — Microphone or Phono  
1 — Tone with "On-Off" Power Switch

### INPUTS (2)

2 — Microphone, 2 Megohms, or  
2 — Phono, 20,000 Ohms

### OUTPUT IMPEDANCES

4, 8, 250, and 500 Ohms

### POWER CONSUMPTION

125 Watts 117 Volts 50-60 Cycles

### DIMENSIONS

9" x 9" x 14 3/4"

### WEIGHT

Shipping Weight 35 lbs.

## LIST PRICES

**W-830 AMPLIFIER only (less tubes) . . . \$ 79.50**  
Shipping Weight 37 lbs. Code: ACOUS

**PX-830 PORTABLE SYSTEM . . . . . 212.00**  
Shipping Weight 93 lbs. Code: ADIEU

- 1 W-830 Amplifier (less tubes)
- 2 W-3913 PM 12" Speakers
- 2 25-ft. Speaker Cables & Plugs
- 1 W-1236 Crystal Microphone
- 1 25-ft. Shielded Microphone Cable & Plug
- 1 W-1121-A Portable Floor Stand
- 1 W-5030 Duplex Speaker Carrying Case
- 1 W-5031 Amplifier Carrying Case

**PD-830 PORTABLE SYSTEM . . . . . 211.00**  
Shipping Weight 94 lbs. Code: ABJUR

- Same as PX-830 except with W-1224 Dynamic Microphone in place of W-1236 Crystal Microphone

**PR-830 PORTABLE SYSTEM . . . . . 220.50**  
Shipping Weight 94 lbs. Code: ADVAN

- Same as PX-830 except with W-1242 Velocity Ribbon Microphone in place of W-1236 Crystal Microphone

**FX-830 FIXED SYSTEM . . . . . 193.00**  
Shipping Weight 87 lbs. Code: AGRIN

- 1 W-830 Amplifier (less tubes)
- 2 W-3913 PM 12" Speakers
- 2 W-2923 Baffles
- 1 W-1236 Crystal Microphone
- 1 25-ft. Shielded Microphone Cable & Plug
- 1 W-1122 Extension Floor Stand

**FD-830 FIXED SYSTEM . . . . . 192.00**  
Shipping Weight 88 lbs. Code: ALKAN

- Same as FX-830 except with W-1224 Dynamic Microphone in place of W-1236 Crystal Microphone

**FR-830 FIXED SYSTEM . . . . . 201.50**  
Shipping Weight 88 lbs. Code: ALPEN

- Same as FX-830 except with W-1242 Velocity Ribbon Microphone in place of W-1236 Crystal Microphone

**KIT OF MATCHED TUBES for W-830 . . . 13.00**  
Shipping Weight 3 lbs. Code: TAMBA

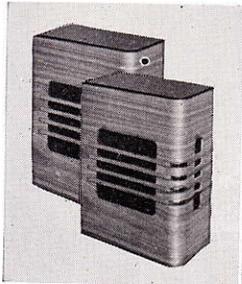
"The Sound of Tomorrow" . . . **WEBSTER - CHICAGO**



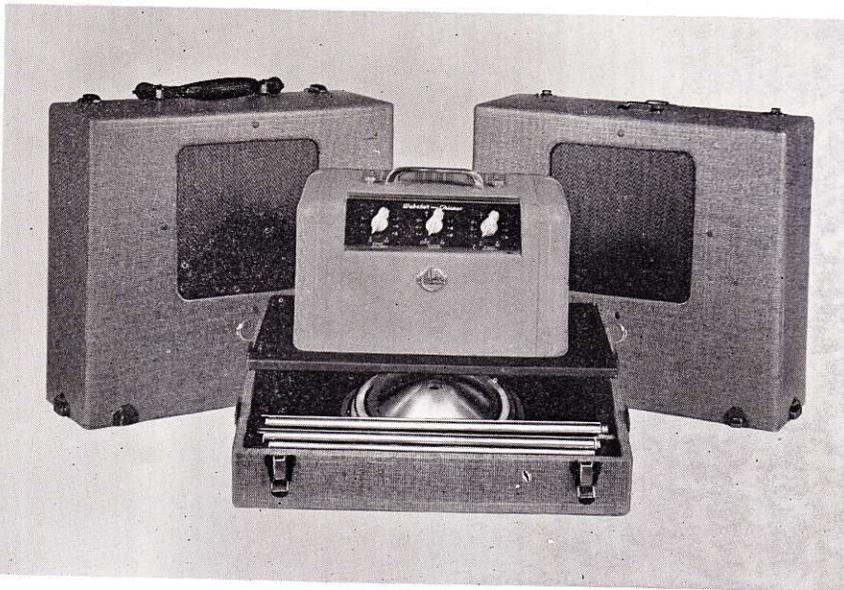
# 14 WATT AMPLIFIER SYSTEMS

● Complete Portable System, Including Full Length Floor Stand, in One Case. A New Feature Especially Convenient for Orchestras, etc. ●

- "No-Glare" Illuminated Glass Panel
- Two Electronic Mixer Input circuits
- Multi-Stage Inverse Feed Back Circuit



W-2923



PX-814 Portable System



W-5014

- Snap-Lock Input Plugs
- Portable and Fixed Systems
- Underwriters Laboratories Approved

## LIST PRICES

<b>W-814 AMPLIFIER</b> only (less tubes)....	\$ 54.00
Shipping Weight 20 lbs. Code: ATTEN	
<b>PX-814 PORTABLE SYSTEM</b> .....	135.00
Shipping Weight 60 lbs. Code: ATTEX	
1 W-814 Amplifier (less tubes)	
2 W-3910 PM 10" Speakers	
2 25-ft. Speaker Cables and Plugs	
1 W-1236 Crystal Microphone	
1 25-ft. Shielded Microphone Cable & Plug	
1 W-1121-A Portable Floor Stand	
1 W-5014 Three piece Carrying Case	
<b>PD-814 PORTABLE SYSTEM</b> .....	134.00
Shipping Weight 61 lbs. Code: AUREA	
Same as PX-814 except with W-1224	
Dynamic Microphone in place of	
W-1236 Crystal Microphone	
<b>FX-814 FIXED SYSTEM</b> .....	149.50
Shipping Weight 51 lbs. Code: AURIS	
1 W-814 Amplifier (less tubes)	
2 W-3910 PM 10" Speakers	
2 W-2923 Baffles	
1 W-1236 Crystal Microphone	
1 25-ft. Shielded Microphone Cable & Plug	
1 W-1122 Extension Floor Stand	
<b>FD-814 FIXED SYSTEM</b> .....	148.50
Shipping Weight 58 lbs. Code: AUSPI	
Same as FX-814 except with W-1224	
Dynamic Microphone in place of	
W-1236 Crystal Microphone	
<b>KIT OF MATCHED TUBES</b> for W-814..	13.00
Shipping Weight 1 lb. Code: TEXTU	

**APPLICATION** — The W-814 portable systems are an example of what can be accomplished through modern design to produce a truly compact yet powerful small PA System. The carrying case houses a full length floor stand, microphone, two speakers, and the amplifier. A unique new feature is the complete assembly of the entire system in one case. Services satisfactorily small orchestras, lecturers, ballyhoo, store demonstrations, etc. Both portable and fixed systems are ideal for small auditoriums and similar gatherings of from 500 to 3000 people. Two microphones can be connected and mixed when desired. High gain and exceptional tone quality make these systems adaptable to practically any location.

**EQUIPMENT** — The W814 portable systems are complete public address units built basically around a skillfully designed 14 watt amplifier. The complete system is housed in one rugged attractive 3 piece carrying case including two 10" speakers, microphone, full length floor stand, and all necessary cables.

Amplifier is conveniently mounted on a removable base which acts as a cover for the microphone stand compartment. Weight is distributed evenly for convenience in carrying. Case finished in attractive airplane cloth which blends with the most modern room finishes.

Fixed systems, complete in every detail, consists of 14 watt amplifier, microphone and floor stand, two 10" permanent magnet speakers with modernistic walnut baffles. Bass reflex type baffles insure higher output at a lower feedback point.

All components used in these systems are matched to insure the highest degree of quality tone reproduction.

## SPECIFICATIONS

### POWER OUTPUT

14 Watts

### RECOMMENDED COVERAGE

Indoors: 2,000 to 3,000 People  
Outdoors: 10,000 Square Feet

### GAIN

Microphone — 123 DB  
Phono — 79 DB

### FREQUENCY RESPONSE

± 2 DB, 50 to 10,000 Cycles

### TUBES (7)

2-6J7, 2-6N7, 2-6V6, 1-5V4G

### WEIGHT

Shipping Weight 20 lbs.

### CONTROLS (3)

2 — Microphone or Phono

1 — Tone with "On-Off"  
Power Switch

### INPUTS (2)

2 — Microphone, 2 Megohms, or  
2 — Phono, 20,000 Ohms

### OUTPUT IMPEDANCE

4, 8, 250, and 500 Ohms

### POWER CONSUMPTION

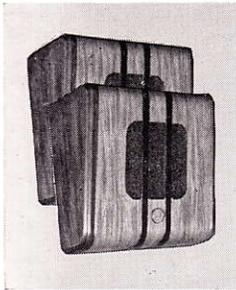
87 Watts 117 Volts 50-60 Cycles

### DIMENSIONS

7¼" x 8½" x 14"

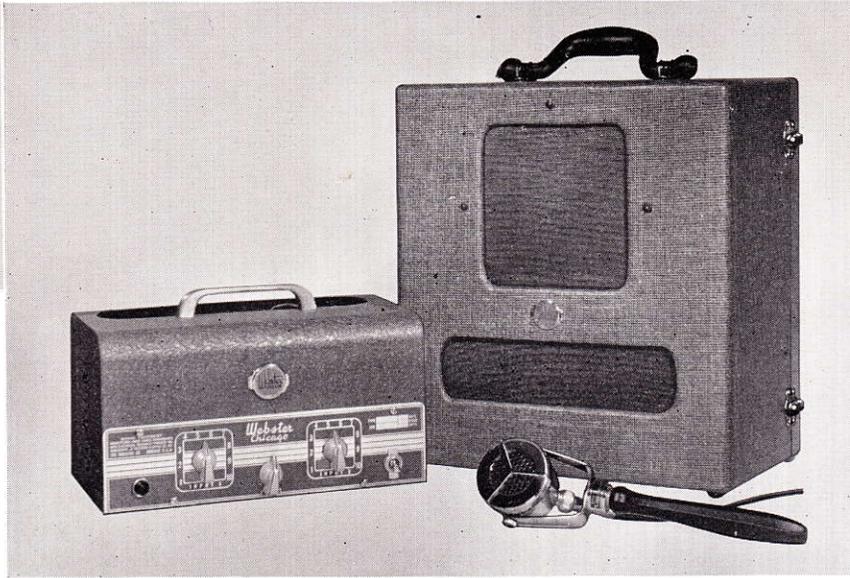
**WEBSTER - CHICAGO...** "The Sound of Tomorrow"

# 8 WATT AMPLIFIER SYSTEMS



W-2908

- Microphone and Phono Mixing
- Base Reflex Speaker Case
- Snap-Lock Input Plugs



PX-808 Portable System



PX-808 (rear view)

- Variable Output Transformer
- Portable and Fixed Systems
- Light Weight, Compact

**APPLICATION** — This powerful small portable or fixed system, with its bass reflex speaker case is suitable for store window demonstrations, small churches, lodge halls, clubs, carnivals and general ballyhoo. The W-808 Amplifier is also recommended for hard of hearing systems in theatres, and churches, either with its own microphone or as a separate earphone amplifier for attaching to existing system. It is also ideal for small paging systems, or as individual booster amplifiers to a general call or communication system.

**EQUIPMENT** — The PX-808 portable system consists of a combination carrying case containing the 8 watt amplifier, hand microphone, speaker, and cable. The amplifier is removable and the back cover replaced on the case to form a complete bass reflex type baffle. The heavy duty 8" permanent magnet speaker is furnished complete with a 25 foot durable speaker cable and polarized plug. Microphone equipment consists of a W-1236-H crystal microphone with 25 foot rubber covered shielded cable and plug.

The FX-808 fixed system includes the 8 watt amplifier and two 8" speakers mounted in sloping front walnut baffles. Crystal microphone is of the professional type chrome plated with 25 feet of shielded microphone cable and snap-lock plug. Microphone is furnished with chrome plated adjustable floor stand having patented friction type clutch.

## SPECIFICATIONS

**POWER OUTPUT**  
8 Watts

**RECOMMENDED COVERAGE**  
Indoors: 1,000 People  
Outdoors: 5,000 Square Feet

**GAIN**  
Microphone — 115 DB  
Phono — 78 DB

**FREQUENCY RESPONSE**  
± 2 DB, 60 to 10,000 Cycles

**TUBES (5)**  
1-6I7, 1-6N7, 1-6C5, 1-6L6G,  
1-5V4G

**WEIGHT**  
Shipping Weight 18 lbs.

**CONTROLS (3)**  
1 — Microphone  
1 — Phono  
1 — Tone with "On-Off"  
Power Switch

**INPUTS (2)**  
1 — Microphone, 2 Megohms  
1 — Phono, 20,000 Ohms

**OUTPUT IMPEDANCES**  
4, 8, 250, and 500 Ohms

**POWER CONSUMPTION**  
74 Watts 117 Volts 50-60 Cycles

**DIMENSIONS**  
6" x 6" x 10½"

## LIST PRICES

**W-808 AMPLIFIER only (less tubes) . . . \$ 38.50**  
Shipping Wt. 18 lbs. Code: AUTHE

**PX-808 PORTABLE SYSTEM . . . . . 89.50**  
Shipping Wt. 45 lbs. Code: AUTOD

- 1 W-808 Amplifier (less tubes)
- 1 W-3908 PM 8" Speaker
- 1 25-ft. Speaker Cable and Plug
- 1 W-1236-H Crystal Microphone
- 1 25-ft. Shielded Microphone Cable and Plug
- 1 W-5008 Two piece Carrying Case

**FX-808 FIXED SYSTEM . . . . . 107.50**  
Shipping Wt. 41 lbs. Code: AUXIL

- 1 W-808 Amplifier (less tubes)
- 2 W-3908 PM 8" Speakers
- 2 W-2908 Baffles
- 1 W-1236-H Crystal Microphone
- 1 25-ft. Shielded Microphone Cable and Plug
- 1 W-1122 Extension Floor Stand

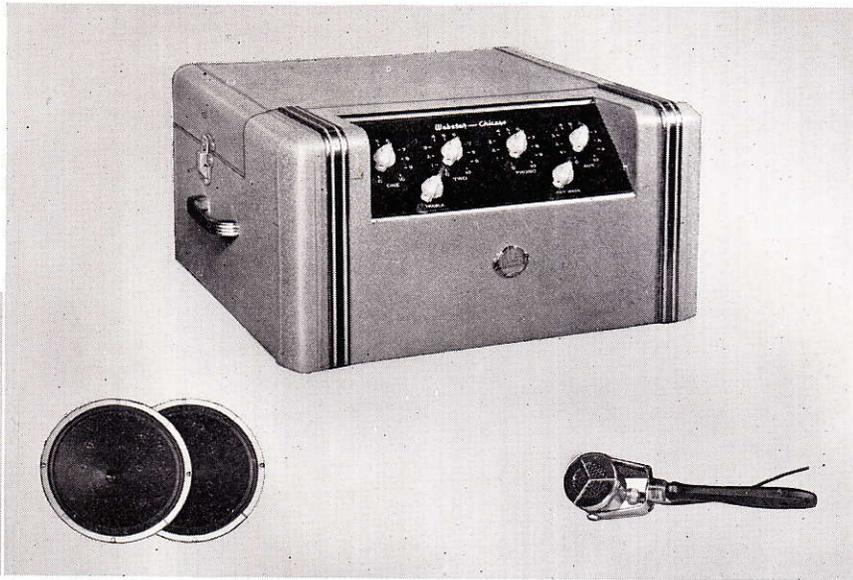
**KIT OF MATCHED TUBES for W-808 . . . 9.00**  
Shipping Wt. 1 lb. Code: THALE

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# 30 WATT "MASTER" MOBILE SYSTEMS

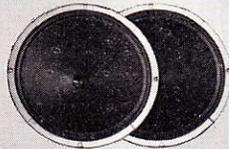
- 6 Volt D.C. or 117 Volt A.C.
- Remote Standby Switch in Microphone Handle
- Two Position Remote Mixer Control
- Four Electronic Mixer Input Circuits
- Dual Tone Controls



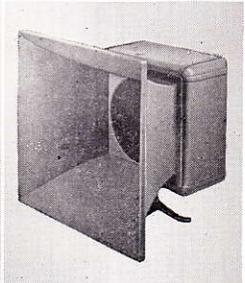
- Removable Protective Cover on Phono Compartment
- "No-Glare" Illuminated Glass Panel
- Noiseless Rim Drive Phono Motor
- Multi-Stage Inverse Feed Back Circuit
- Snap - Lock Input Plugs



W-929 (open)



W-929 Master Phono-Amplifier and Accessories



W-2618

## LIST PRICES

W-929	MASTER PHONO-AMPLIFIER COMBINATION (less tubes) . . . . .	\$169.50
	Shipping Weight 65 lbs. Code: MALAC	
MX-929	MASTER MOBILE SYSTEM . . . . .	242.00
	Shipping Weight 85 lbs. Code: MALIG	
	1 W-929 Phono-Amplifier combination (less tubes)	
	2 W-3913 PM 12" Speakers (less baffles)	
	2 15-ft. Speaker Cables & Plugs	
	1 W-1236-HR Crystal Microphone	
	1 25-ft. 2 Conductor Shielded Microphone Cable and Plug	
MX-929-B	MASTER MOBILE SYSTEM 287.00	
	Shipping Weight 130 lbs. Code: MALIS	
	Same as MX-929 but including 2 W-2618 Speaker Baffles	
	(Note: see page 18 for Weather-proof Baffles)	
MX-929-C	MASTER MOBILE SYSTEM 309.00	
	Shipping Weight 140 lbs. Code: MALLA	
	Same as MX-929 except with 2 W-2640 High Power Marine Type Speakers in place of 2 W-3913 Speaker Chassis	
MD-929	MASTER MOBILE SYSTEM . . . . .	248.00
	Shipping Weight 87 lbs. Code: MALNU	
	Same as MX-929 except with W-1245-HR Dynamic Microphone and 3 Conductor Shielded Cable in place of W-1236-HR Crystal Microphone	
MD-929-B	MASTER MOBILE SYSTEM 293.00	
	Shipping Weight 132 lbs. Code: MANAG	
	Same as MD-929 but including 2 W-2618 Speaker Baffles	
MD-929-C	MASTER MOBILE SYSTEM. 315.00	
	Shipping Weight 142 lbs. Code: MANDO	
	Same as MD-929 except with 2 W-2640 High Power Marine Type Speakers in place of 2 W-3913 Speaker Chassis	
KIT OF MATCHED TUBES for W-929 . . . . .		16.00
	Shipping Weight 3 lbs. Code: THANE	
W-902	2 POSITION REMOTE MIXER CONTROL & 50 FT. CABLE	10.00
	For use with any of the above systems, (see page 6 for description) Code: CAIRN	

**APPLICATION** — W-929 *Master* is a deluxe system that is truly flexible, and ideal for rental purposes. Operates equally well from 6 volt storage battery or 117 volt AC line. Complete with phono unit, and remote mixer, with 30 watts of output, it is applicable for practically all sound jobs. Recommended for truck installations, for rush job at picnics, ball games, athletic fields and all locations where AC source is not available. 4 position mixer and dual tone control. An outstanding Webster-Chicago development is the remote power supply switch located at the microphone. When operating from the storage battery, turning off the microphone automatically shuts off the plate supply, enabling the announcer, located possibly 50 feet from the amplifier to conserve the storage battery. The microphone can also be operated several hundred feet from the amplifier by using the W-200 microphone transformer and a W-1245-LHR low impedance microphone, complete with handle and switch.

**EQUIPMENT** — W-929 *Master* mobile system is built around a phono-amplifier combination carefully designed for extra hard usage. Housed in an attractive steel cabinet finished in grey crystalline. A new Webster feature is the streamlined removable hinged cover, protecting the phono mechanism. The "No-Glare" illuminated control panel is indispensable where little or no light is available. New rim drive phonograph motor combines noiseless correct speed operation in all temperatures with the constant speed synchronous type advantages of previous models. Dual tone controls are another new feature. A new innovation in mobile units is the provision for a two position remote mixer operating anywhere within hearing distance of the speakers, or for control at remote microphone locations.

Two high power W-3913 dynamic speaker chassis only, or completely assembled in W-2618 directional baffles, complete with 15 foot cords, are part of the system. Where speakers are to be operated over 50 feet from the amplifier, two W-3913-A speakers (with line transformer) should be used, which will allow the use of long speaker lines of several hundred feet. The systems are complete with 5 foot battery cable with clips and 7 foot AC power cord.

## SPECIFICATIONS

### POWER OUTPUT

30 Watts

### RECOMMENDED COVERAGE

Indoors: 5,000 to 10,000 People

Outdoors: 25,000 Square Feet

### GAIN

Microphone — 122 DB

Phono — 70 DB

Auxiliary — 70 DB

### FREQUENCY RESPONSE

± 1½ DB, 40 to 10,000 Cycles

### TUBES (9)

2-6L7, 2-6L6G, 3-6N7, 2-6W5G

### DIMENSIONS

8½" High x 16½" x 16"

### WEIGHT

Shipping Weight 65 lbs.

### CONTROLS (6)

2 — Microphones

1 — Phono with Switch

1 — Auxiliary

1 — Treble

1 — Bass

### INPUTS (3)

2 — Microphones, 2 Megohms

1 — Auxiliary, 20,000 and

100,000 Ohms

### OUTPUT IMPEDANCES

4, 8, 250, and 500 Ohms

### POWER CONSUMPTION

AC — 150 Watts 117 Volts 60

Cycles

DC — 20 Amps. (120 Watts)

6 Volts

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