

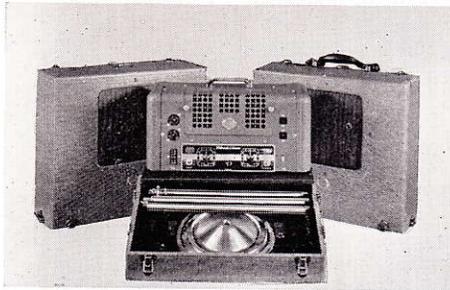
# 20 WATT MOBILE SYSTEMS



- 6 Volt DC or 117 Volt AC
- "No-Glare" Illuminated Glass Panel
- Noiseless Rim Drive Phono Motor
- Economical Power Requirements
- Tone Compensation



- Multi-Stage Inverse Feed-Back Circuit
- Permanent Magnet Speakers
- Snap-Lock Input Plugs



PX-618 System



W-2640

W-820 Phono-Amplifier and Accessories

**APPLICATION** — The W-820 phono-amplifier combination is a completely self-contained 6 volt DC and 117 volt AC Sound System. It is economical in operation and ideal for sound car installations, as well as all locations where AC supply is not available. Equipped with heavy duty 12 inch speakers that are capable of handling full output of the Amplifier, it will satisfactorily cover a great majority of the picnic groves, political gatherings, carnivals, circuses, and similar outdoor gatherings where the area is not too large.

**EQUIPMENT** — The W-820 is a 20 watt phono-amplifier combination very compact in size and particularly adapted for mobile application. It includes the new noiseless rim drive phonograph motor that will maintain correct speed under all conditions of operation or weather. The "No-Glare" illuminated control panel, contains microphone, phono, and tone controls.

The two W-3912 speakers supplied with the system are heavy duty 12 watt speakers specially designed to be used under the difficult operation required with a 20 watt mobile type of system. Complete with 15 foot cords, they are available with or without the W-2618 metal baffles. Two W-3912-A speakers (with line transformer) are recommended where speaker lines are apt to run over 50 feet each.

A hand type crystal or dynamic microphone with 25 foot shielded cable, complete with "On-Off" switch, is furnished. 5 foot battery cable with clips and 7 foot AC power cord, equipped with polarized plugs included.

## SPECIFICATIONS

**POWER OUTPUT**  
20 Watts

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

**GAIN**  
Microphone — 123 DB  
Phono — 73 DB

**FREQUENCY RESPONSE**  
± 2 DB, 50 to 10,000 Cycles

**TUBES (6)**  
1-6J7, 2-6N7, 2-6L6G, 1-6W5G

**WEIGHT**  
Shipping Weight 35 lbs.

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

**INPUTS (2)**  
1 — Microphone, 2 Megohms  
1 — Phono (self contained or auxiliary) 20,000 Ohms

**OUTPUT IMPEDANCES**  
4, 8, 250, and 500 Ohms  
**POWER CONSUMPTION**  
AC—120 Watts 117 Volts 60 Cycles  
DC—16 Amps. 6 Volts

**DIMENSIONS**  
8" x 14½" x 14½"

## 18 WATT 6V. DC. — 117 V. A. C. MODEL Less Phono-Assembly

The W-618 is a combination 6V DC and 117V AC amplifier less phono-assembly. Available for car installations and for picnics, rural dances, lectures, etc., where AC supply is either not available or too difficult to obtain. Similar in facilities to the W-820 except for the phonograph, it is supplied both in a portable and fixed system. Tubes used: 1-6J7, 2-6N7, 2-6L6, 1-6W5G. Current consumption (DC) 13 amps, (AC) 100 watts.

## LIST PRICES

W-820 PHONO-AMPLIFIER COMBINATION only (less tubes)	\$110.00
Shipping Weight 35 lbs. Code: MANIF	
MX-820 MOBILE SYSTEM	169.50
Shipping Weight 55 lbs. Code: MANTE	
1 W-820 Phono-Amplifier (less tubes)	
2 W-3912 PM 12" Speakers (less baffles)	
2 15-ft. Speaker Cables & Plugs	
1 W-1236-HS Crystal Microphone	
1 25-ft. Shielded Microphone Cable & Plug	
MX-820-B MOBILE SYSTEM	214.50
Shipping Weight 105 lbs. Code: MAROB	
Same as MX-820 plus 2 W-2618 Baffles (see page 18 for Weather-proof Baffles)	
MX-820-C MOBILE SYSTEM	244.50
Shipping Weight 115 lbs. Code: MARIN	
Same as MX-820 except with 2 W-2640 High Power Marine Type Speakers in place of 2 W-3912 Speaker Chassis	
MD-820 MOBILE SYSTEM	168.50
Shipping Weight 57 lbs. Code: MARQU	
Same as MX-820 except with W-1224-HS Dynamic Microphone in place of W-1236-HS Crystal Microphone	
MD-820-B MOBILE SYSTEM	213.50
Shipping Weight 107 lbs. Code: MARVE	
Same as MD-820 plus 2 W-2618 Baffles	
MD-820-C MOBILE SYSTEM	243.50
Shipping Weight 117 lbs. Code: MASTO	
Same as MD-820 except with 2 W-2640 High Power Marine Type Speakers in place of 2 W-3913 Speaker Chassis	
KIT OF MATCHED TUBES for W-820	10.75
Shipping Weight 3 lbs. Code: THEBA	

W-618 AMPLIFIER (less tubes)	\$ 65.00
Shipping Weight 20 lbs. Code: AUTUM	
PX-618 PORTABLE SYSTEM	146.00
Shipping Weight 60 lbs. Code: AUTOT	
1 W-618 Amplifier (less tubes)	
2 W-3910 PM 10" 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-5014 Three piece Carrying Case	
FX-618 FIXED SYSTEM	123.50
Shipping Weight 51 lbs. Code: AUTOP	
1 W-618 Amplifier (less tubes)	
2 W-3910 PM 10" Speakers	
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)	
KIT OF MATCHED TUBES for W-618	10.75
Shipping Weight 2 lbs. Code: THETA	

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# MICROPHONES AND ACCESSORIES

## DYNAMIC MICROPHONES



W-1245

Wide range of pick-up, excellent frequency characteristic, low internal noise level, and freedom from atmospheric or climatic effects are characteristics which make the dynamic type of microphone most suitable for public address work. The Webster-Chicago series W-1245 are a new design of dynamic microphone, utilizing a moving coil mounted on dural diaphragm. The moving coil is maintained in an intense magnetic field, the magnet itself being of Alnico Blue Streak metal having high flux density per unit gap. Assembly includes a balanced quadropi type winding transformer to eliminate stray electro-magnetic pickup. Microphone is assembled in a polished chromium case of attractive design complete with swivel yoke mounting. W-1224 series are a smaller compact model similar to W-1245.

## CRYSTAL MICROPHONES



W-1236

Webster-Chicago Model W-1236 is a diaphragm type crystal microphone of outstanding performance that has been especially adapted to high quality PA work at a moderate price. It contains such modern features as internal screen-protected cartridge, moisture-sealed crystal, high level output, curvilinear diaphragm for high efficiency, high capacity torsion-drive crystal, combination semi-directional and non-directional mounting, wide range reproduction 40 to 10,000 cycles, and shockproof cartridge suspension. Assembly is contained in a beautifully styled case, finished in polished chrome, resulting in a durable finish that will withstand the most rugged PA requirements.

## VELOCITY MICROPHONES



W-1242  
W-1243

The W-1242 and W-1243 series of velocity microphones has been designed to meet the rigid requirements of the present and future public address requirements and refinements in amplifier design. Improved speaker performance has interposed more exacting requirements upon the microphone. The present series meet these demands, using high permeability transformer cores and magnetic structures employing recently developed materials. The dural ribbon is of the corrugated type and is suspended in an intense magnetic field. These microphones are contained in attractive cast cases which function as electro magnetic and electro static shields, though interposing a minimum distortion effect on the sound wave.

## FLOOR STANDS

Two models of full length floor stands are available. Both types have full size heavy bases and patented new type clutch. They are finished in a durable polished chrome that will withstand hard usage over a long period of time.

**W-1121-A FLOOR STAND.** List Price \$14.00  
Shipping Wt. 17 lbs. Code: STRIP  
A 4 section stand for portable use. Adjustable from 48" to 60". Also can be used as a banquet stand by eliminating 2 sections and is then adjustable from 17" to 30".

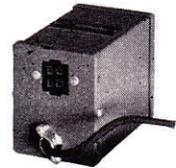
**W-1122 FLOOR STAND.** List Price \$14.00  
Shipping Wt. 19 lbs. Code: STOUP  
A 2 piece floor stand, adjustable from 35" to 60".



W-1122

## MICROPHONE TRANSFORMER

Many times a sound system installation using high impedance microphones demands that at least one microphone shall be operated at a greater distance from the amplifier than 25 to 50 feet. High quality performance requires a transformer of special design with a quadropi type of winding and special assembly to eliminate hum and stray r. f. pickup. The W-200 transformer meets all of these requirements and at the same time is offered as a handy accessory that can be attached quickly without tools. It is equipped with a 5 foot cord and locking type plug to connect directly to any of the W-800 or W-900 series of amplifiers. Also has a locking type 4 prong receptacle to fit all Webster-Chicago microphones.



W-200

**W-200 MICROPHONE TRANSFORMER.** List Price \$20.00  
Shipping weight 3 lbs. Code: THORI  
Couples a 200 Ohm microphone to the input of any high impedance type amplifier.

## PORTABLE PHONOGRAPHS

Webster-Chicago Portable Phonographs have been designed to permit the use of transcribed programs in connection with public address equipment. One model is available with high fidelity magnetic pickup and one with crystal pickup. Both are equipped with a noiseless rim drive constant speed phonomotor, with 10" table. Case size is 8" x 14" x 14". Finish is new airplane cloth of neutral grey color. Supplied complete with needle cup, pickup arm rest, 6' shielded connector cable and 6' power cord. For operation on 117 volt 60 cycle current only.

**W-1257 PORTABLE PHONOGRAPH.** List Price \$32.50  
Shipping Weight 15 lbs. Code: PALAE  
Complete as described above with Magnetic Pickup.

**W-1259 PORTABLE PHONOGRAPH.** List Price 37.50  
Shipping Weight 15 lbs. Code: ARRO  
Complete as described above with Crystal Pickup



W-1257  
and  
W-1259

## MICROPHONE SPECIFICATIONS AND PRICES

Catalog Number	Type	Output Level	Freq- uency Response	Imped- ance Ohms	Ship. Wt. in Lbs.	Code	List Price
W-1245	Dynamic	-60 DB	50-10,000	5,000	6	MALAR	\$29.50
W-1245-HS	Dynamic*	-60 DB	50-10,000	5,000	7	MATAD	33.00
W-1245-L	Dynamic	-60 DB	50-10,000	200	6	MARMO	29.50
W-1224	Dynamic	-62 DB	60- 9,000	5,000	5	MATER	22.50
W-1224-HS	Dynamic*	-62 DB	60- 9,000	5,000	6	MATUT	26.00
W-1224-L	Dynamic	-62 BD	60- 9,000	200	5	METAG	22.50
W-1236	Crystal	-55 DB	40-10,000	2 meg.	2	MACAD	23.50
W-1236-H	Crystal†	-55 DB	40-10,000	2 meg.	3	MOROC	24.50
W-1236-HS	Crystal*	-55 DB	40-10,000	2 meg.	3	MOTLE	27.00
W-1242	Velocity	-68 DB	50- 9,000	5,000	6	MAINS	32.00
W-1242-L	Velocity	-68 DB	50- 9,000	200	6	MALIC	32.00
W-1243	Velocity	-65 DB	40-11,000	5,000	7	MUSSE	42.00
W-1243-L	Velocity	-65 DB	40-11,000	200	7	MUSLI	42.00

Every Webster-Chicago microphone is equipped with 25' of shielded rubber covered cable. \* With handle and switch. † Handle only.

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# AUTOMATIC RECORD CHANGERS



- Rejects Any Record
- Handles Records Safely
- Simplicity of Construction
- Manual Operation Selector
- Plays Ten 12" or Twelve 10" Records
- Jam-Proof, Even During Change Cycle

The non-jamming feature of the New Webster-Chicago Automatic Record Changer is broad and comprehensive. Such abuses as lifting or holding pickup arm when in "change cycle"; pressing wrong buttons; lifting, holding, or turning the record supporting posts; loading with excessive records; or any other usual forms of tampering will not harm this record changer.

Handles either ten 12" records or twelve 10" records but will not play both types simultaneously. There are four control buttons; one for playing 10" records; one for playing 12" records; one for changing mechanism to manual operation and one for rejecting records during operation.

This new record changer is a marvel of constructional design being composed of less than half the component parts usually found in the intricate and involved mechanisms heretofore available. Yet it incorporates the essential features of other record changers plus the trouble-free characteristics of the sturdy Webster-Chicago design.

Noticeably quiet and smooth-running in operation due principally to the comparatively few moving parts. Handles records scientifically, minimizing wear or damage during operation. Direct gravity feed of records on a flat plane creates air-cushioned drop with no scraping of records on each other.



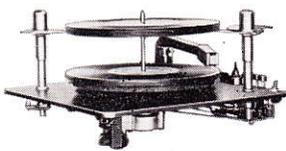
W-1260

## PORTABLE AUTOMATIC CHANGER

A complete automatic record changer in portable carrying case. Suitable for use with portable amplifying systems where it is desired to obtain prolonged phono reproduction at dances, intermissions, school programs, etc. Equipment has removable cover on case, needle cup, combined "On-Off" power switch and volume control, 6-foot power cord and 6-foot shielded connecting cord.

W-1260 PORTABLE AUTOMATIC CHANGER . . . . . List Price \$77.50  
Shipping Wt. 35 lbs. Code: PACKE  
Complete with crystal pickup.

## AUTOMATIC CHANGER CHASSIS



W-1270

This chassis is the working unit as housed in the portable case Type W-1260. It can be used for rack and panel installation or in metal and wooden cabinets, or in any centralized equipment requiring phonograph facilities, where a trouble-free automatic changer is desired.

Compact construction permits installation in limited space. Will generally fit in space suitable only for manual operation record players. Actual dimensions overall are 14" wide and 14" long. Automatic mechanism extends 5 1/2" above mounting plate and 4 1/2" below.

W-1270 AUTOMATIC RECORD CHANGER CHASSIS . . . . . List Price \$60.00  
Shipping weight 30 lbs. Code: PALIS  
Complete as described above with crystal pickup.

## PHONOGRAPH PICKUP

The W-83 magnetic pickup is a new development by Webster-Chicago. The magnetic principle results in brilliance of tone with a natural life-like reproduction not obtainable with other types. The magnetic structure utilizes newly developed alloys for improved output level. It is practically independent of temperature or climatic effects.

The new arm obtains its free action in any direction by means of jointed head mounting together with the swivel base mounting. Each pickup is equipped with a shielded cable 18" long.



W-83

OUTPUT . . . . . 1.4 volts  
IMPEDANCE . . . . . 5000 ohms  
RECORD PRESSURE . . . . . 3 oz.  
LENGTH OF TONE ARM . . . . . 9 1/2"

W-83 PHONOGRAPH PICKUP . . . . . List Price \$ 6.75  
Shipping Weight 1 lb. Code: PLAUX

## PHONOGRAPH TURNTABLE MOTORS

In principle, friction-drive is fundamentally preferable wherever driving torques are low and quietness is all-important, as in a phonograph. A practical constant-speed self-starting phonograph motor has in the past presented certain difficulties. The problem was solved by Webster-Chicago engineers by use of an idler wheel of original construction operating between the drive bushing and the inside of turntable rim. The idler wheel has an exterior of high-friction rubber whose soft peripheral surface transmits the power and insures silent operation. Concealed within the rubber is, however, a metal skeleton-wheel, providing necessary rigidity without requiring any separate tire which might ultimately come loose.



R-15-10 and R-16-10

The Webster-Chicago drive construction has proved an especial convenience to the trade in 50-cycle localities. Conversion to that frequency is quickly filled by merely removing one drive bushing and substituting another. Small additional cost for 50 cycle bushing. The Webster-Chicago friction drive is a proved commercial success. Many thousands are in service, under widely varying conditions. Years of dependability are assured despite the low cost of this inherently silent type of drive.

POWER CONSUMPTION . . . . . 13 watts  
SPEED . . . . . 78 RPM  
SPEED VARIATION DURING REVOLUTION (wow), Less than 1%  
MOUNTING DIMENSIONS — motor fits in a hole in mounting board 3 3/4" x 3 3/4"; extends 2 1/4" below plate.

R-16-10 RIM DRIVE PHONOGRAPH MOTOR . . . . . List Price \$ 6.00  
Shipping weight 7 lbs. Code: MACHI  
Complete with mounting plate and 10" turntable.  
For operation on 117-volt 60-cycle current only.

R-15-10 RIM DRIVE PHONOGRAPH MOTOR . . . . . List Price 6.25  
Shipping weight 7 lbs. Code: MAZUR  
Same as R-16-10 except for 50-cycle current

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# SPEAKER BAFFLES AND CHASSIS

## WOOD BAFFLES

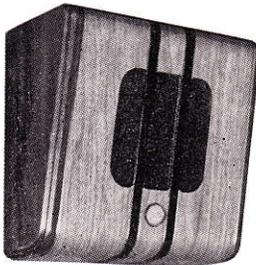


W-2925  
W-2923

wire mesh and grill, as well as hardware for mounting on the wall. They can be located directly on the stage floor, if desired, since they have a flat bottom surface.

**W-2923 BAFFLE FOR 12" SPEAKERS...** List Price \$18.50  
Shipping weight 18 lbs. Code: STARL  
The W-2923 is recommended for use with W-3912 and W-3913 speaker chassis, or with the W-3910 using reducing baffle. Can be mounted horizontally, vertically, or in either left hand or right hand corner wall space. Complete with mounting hardware. Size 15" x 8" x 20".

**W-2925 BAFFLE FOR 12" SPEAKERS...** List Price 25.00  
Shipping weight 22 lbs. Code: STRAS  
Similar to W-2923, except of much heavier construction and designed especially for W-3914 and W-3915 speaker chassis. Equipped with four chrome decorative strips. Modernistic in design and appearance. Complete with mounting hardware. Size 16" x 8 1/2" x 22".



W-2908

**W-2908 BAFFLE FOR 8" SPEAKERS...** List Price 6.75

Shipping Weight 12 lbs.

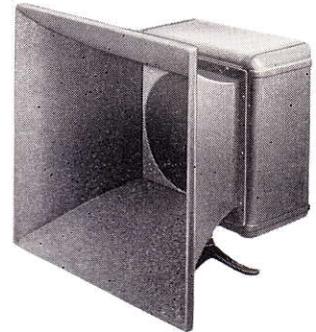
Code: STRIA

An attractive two-tone walnut baffle of trapezoidal construction.

Size 12" x 6" x 11 1/2".

## METAL BAFFLES

The various models of horns listed are of spot welded steel construction. The flare or expansion ratio has been accurately determined to provide the proper diaphragm loading on the cone speaker. Finished in durable baked grey crystalline.



W-2618

All models provided with adjustable mounting brackets to facilitate handling a variety of mounting conditions.

**W-2618 BAFFLE FOR 12" SPEAKERS...** List Price \$22.50  
Shipping weight 25 lbs. Code: SELAH  
Throat dimensions 20" x 20". Overall length 18"  
Complete with mounting bracket, grill, and screen.

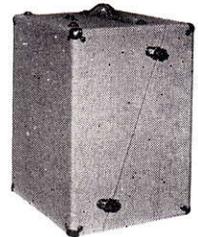
**W-2619 BAFFLE FOR 12" SPEAKERS...** List Price 30.50  
Shipping weight 26 lbs. Code: SOTTO  
Same as W-2618, except weatherproofed for continuous out-of-door service.

**W-2650 BAFFLE FOR 12" SPEAKERS...** List Price 50.00  
Shipping weight 45 lbs. Code: SPIRO  
Dimensions of bell 30" x 30", overall depth 31", for use with all Webster-Chicago 12" speakers.

**W-2651 BAFFLE FOR 12" SPEAKERS...** List Price 58.00  
Shipping weight 46 lbs. Code: SPONT  
Same as W-2650, except weatherproofed for continuous out-of-door service.

## PORTABLE BAFFLES

The W-5030 is a compact carrying case of split construction containing two speaker baffles. Each half of the case is a carefully designed true bass reflex baffle giving reproduction of sound lower in frequency and more accurate in character than possible with an infinite baffle. Case finished in neutral grey airplane cloth. Space is provided for carrying two 35-foot speaker cables. Designed for use with Webster-Chicago W-3912, W-3912-A, W-3913 and W-3913-A speakers.



W-5030

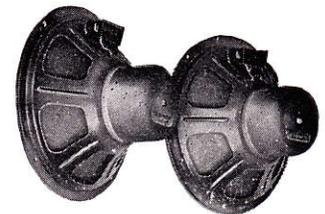
**W-5030 TWIN BAFFLE CARRYING CASE,** List Price \$29.50  
Shipping Weight 17 lbs. Code: BANKA  
Dimensions 13" x 16" x 9 1/2".

## SPEAKER CHASSIS

Catalog Number	Size Inches	Power Watts	Impedance Ohms	Flux Density Lines	Shipping Weight	Code	List Price
W-3908	8	6-8	8	54,000	6 1/2	SEALI	\$ 8.50
W-3908-A	8	6-8	*	54,000	8	SEAPH	10.75
W-3910	10	8-10	8	55,400	8	SECAN	10.50
W-3910-A	10	8-10	*	55,400	10	SECRE	12.75
W-3912	12	10-12	8	80,000	13	SEESA	15.50
W-3912-A	12	10-12	*	80,000	15	SENSA	17.75
W-3913	12	12-15	8	90,000	15	SEQUO	19.50
W-3913-A	12	12-15	*	90,000	17	SERAG	22.25
W-3914	12	18-20	8	160,000	19	SATEL	34.75
W-3914-A	12	18-20	*	160,000	22	SATRA	38.25
W-3915	12	15-18	8	130,000	17	SCARL	25.00
W-3915-A	12	15-18	*	130,000	19	SCHIS	27.75

\* Suffix "A" designates same speaker chassis, equipped with input transformer tapped for 500, 1000, 1500 and 2000 ohms.

Webster-Chicago offers a complete line of permanent magnet dynamic speakers designed for operation with complete systems as listed in this catalog. Some of the heavier duty



12" speakers listed while not specified in any complete systems may be substituted directly where higher power units are desirable.

The W-3912 and W-3912-A speaker chassis have a heavier magnet than the previous W-3812 model, and are designed specifically for the W-820 mobile system or wherever a popular priced, high powered PM speaker is required.

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# "SUPER-FIDELITY" SOUND REPRODUCERS

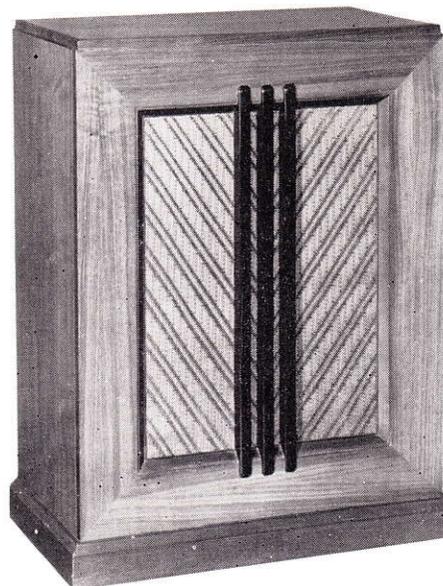


The *Super-Fidelity* sound reproducers are complete speaker chassis and associated baffle assemblies designed to operate as a unit with any of the Webster-Chicago sound systems listed in this catalog. For the first time Webster-Chicago offers a wide range of high fidelity reproducers recommended for substitution

in the standard systems as they are listed, where it is desired to have superlative tone quality of reproduction.

These speakers are specially recommended for auditoriums and similar institutional locations where the acoustics are good and those outdoor installations where high quality musical reproduction is desired.

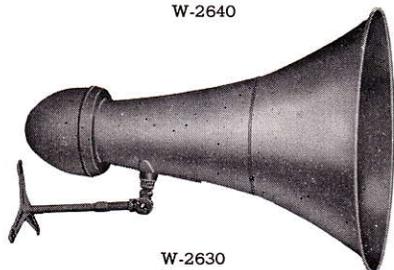
- W-3000-A REPRODUCER WITH 12" PM CHASSIS**..... List Price \$92.25  
 Shipping weight 65 lbs. Code: BARLE  
 Bass reflex reproducer in beautiful solid walnut cabinet. Equipped with a W-3914-A speaker chassis with tapped matching transformer. Size 24" x 33" x 13½".
- W-3000-B REPRODUCER WITH 12" PM CHASSIS**..... List Price 81.75  
 Shipping weight 63 lbs. Code: BARKY  
 Same as W-3000-A, except with W-3915-A speaker chassis.
- W-3000-C REPRODUCER WITH 12" PM CHASSIS**..... List Price 71.75  
 Shipping weight 60 lbs. Code: BAROM  
 Same as W-3000-A, except with W-3912-A speaker chassis.
- W-3001 SUPER-FIDELITY REPRODUCER**..... List Price 400.00  
 Shipping weight 250 lbs. Code: BATHO  
 A wide range high fidelity reproducer. 15" speaker for bass reproduction and air column tweeter with multi-cell horn, complete with dividing network and power supply. 117-volt, 50-60 cycle current. Plain wood cabinet with grey unpolished finish for outdoor or concealed use. Power rating 25 watts, impedance 500 ohms.
- W-3002 SUPER-FIDELITY REPRODUCER**..... List Price 525.00  
 Shipping weight 325 lbs. Code: BATRA  
 Made up of the W-3001 reproducer mounted in solid walnut cabinet for use where appearance is important. Cabinet is similar to W-3000.



W-3000 and W-3002



W-2640



W-2630

The W-2640 Reproducer is a marine type, high powered speaker and baffle completely waterproofed. It is ideal for Mobile Sound Cars, Stadiums, Police and Fire Cars, Airports, and similar installations. Baffle is of sturdy construction and finished in grey crystalline. The bell and housing are spun of heavy gauge steel alloy. Swivel type mounting bracket allows adjustment of baffle to any direction.

The speaker is a new high powered 8" chassis with heavy permanent magnet. Power handling capacity, 15 to 18 watts. Voice coil impedance, 8 ohms. The speaker chassis faces toward the inside of the horn, eliminating possibility of physical damage and results in a weatherproofed design that will withstand continued exposure to rain, dust, snow, or wind.

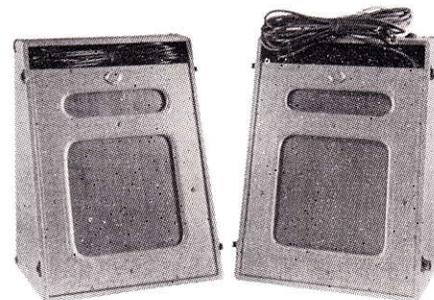
- W-2640 REPRODUCER**..... List Price \$53.00  
 Shipping weight 35 lbs. Code: BECOM  
 Complete as described above with 15 ft. cable. Bell opening 22½", overall length 18". Overall height from base 28".

The W-2630 Reproducer is a directional type horn of conventional design. The rear section housing the heavy duty 8" Permanent Magnet unit is entirely enclosed. Recommended for outdoor locations where sound must be projected great distances with a minimum of feedback. Complete with adjustable mounting bracket similar to that supplied with the W-2640. Also uses same 8" heavy duty PM Speaker chassis as W-2640.

- W-2630 REPRODUCER**..... List Price \$62.00  
 Shipping weight 35 lbs. Code: BAYON  
 Complete as described above with 15' of cable. Bell opening 24" in diameter. Overall length 36".

The W-5032 and W-5033 Reproducers are complete speakers and baffles using the W-5030 carrying case described on page 18. Combination includes 12" speakers and two 35' speaker cords, less plugs. Recommended particularly as speaker equipment for semi-portable systems using Master W-945 and W-975 amplifiers. The design of the baffle allows operation on the floor of a stage or suspended on a wall with proper direction of inclined face for best coverage.

- W-5032 REPRODUCER**..... List Price \$64.00  
 Shipping weight 40 lbs. Code: BAYON  
 Complete as described above. Includes two W-3912 speaker chassis.
- W-5033 REPRODUCER**..... List Price 72.00  
 Shipping weight 45 lbs. Code: BECHE  
 Complete as described above. Includes two W-3913 speaker chassis.



W-5032 and W-5033

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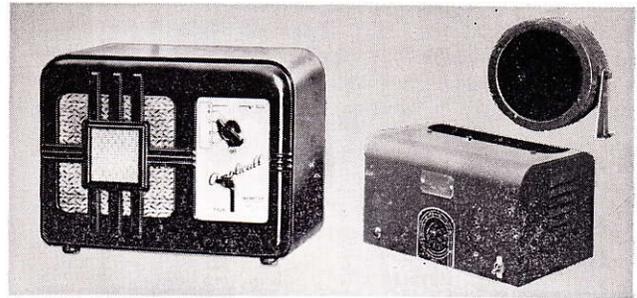
# INTER-COMMUNICATING SYSTEMS

For time saving and step saving there is nothing quite the equal of Webster-Chicago Inter-Communicating Systems. Thru careful engineering Webster-Chicago has accomplished coverage of the majority of inter-communication requirements with three flexible and universal systems described as follows:

The W-200 series equipment is all Master station type, provides two way communication and origination of calls between all stations. It is recommended for general inter-office conversations.

The W-300 series is a higher power paging system with return speech from each remote station to a centrally located Master station.

The W-400 series is a deluxe combination of Master stations, and remote stations, with an unlimited number of combinations of both units.



W-305

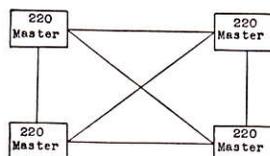
BA-20

W-300

## W-200 SERIES "AMPLICALLS"



W-210



The all Master W-200 series is recommended for inter-communication between offices, stockrooms, stores, etc., where noise level is comparatively low. Any station may call any other station, and carry on a private conversation. More than one conversation can be carried on simultaneously, up to one-half the number of stations on the entire system. Models with ear-phone attachment are available for private listening. When the ear-phone is used, the talk-listen switch is not operated, the conversation being carried on the same as with an ordinary telephone.

**W-200 System**—Up to 20 Master Stations. Any station can call and talk privately with any other station. 10 conversations can be carried on simultaneously on a 20 station system.

The W-200 models are universal for AC and DC operation and carry the Underwriters' Laboratory label.

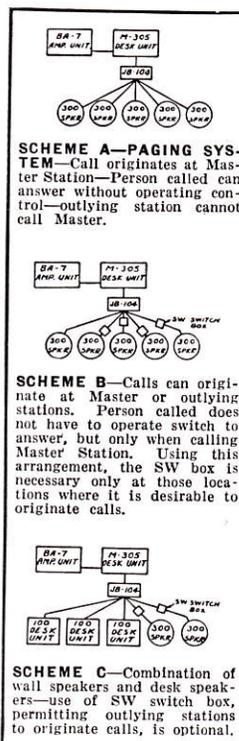
Unshielded cable, containing one

more conductor than the number of stations on the system is all that is required for wiring. A junction box for each station is recommended to facilitate installation. Each Master is enclosed in an attractive black ebony plastic case. The controls consist of: station selector with AC switch, talk-listen lever and control for incoming volume. Mounted at rear is an adjustable control for outgoing volume.

### LIST PRICES (with tubes)

W-210 MASTER STATION.....	\$38.00
Shipping Weight 12 lbs. Code: SIVAS	
with 10 station selector switch	
W-210-Q MASTER STATION.....	44.00
Shipping Weight 12 lbs. Code: SACRI	
(Same as W-210 except with earphones)	
W-220 MASTER STATION.....	45.00
Shipping Weight 12 lbs. Code: SKIRR	
with 20 station selector switch.	
W-220-Q MASTER STATION.....	51.00
Shipping Weight 12 lbs. Code: SZLAR	
(Same as W-220 except with earphone)	
JB-106 JUNCTION BOX.....	4.25
For use with W-210 Code: JOIST	
JB-107 JUNCTION BOX.....	4.50
For use with W-220 Code: JUDGE	

## W-300 SERIES "AMPLICALLS"



The W-300 series is a high power paging system combining return speech to the Master Station. Especially suitable for lumber yards, coal yards, mining camps, warehouses, etc. The Master station may call over any one of five or ten remote speakers or all speakers simultaneously. The person called can answer back immediately without the necessity of operating any control.

The Master station has 20 watts power output sufficient to call ten remote stations simultaneously. Two conductor shielded cable is run from the Master location to each remote speaker without originating switch and three conductor shielded cable to those with originating switch feature. It is recommended that a junction box be installed at the master station to facilitate wiring.

Master station control cabinet contains speaker-microphone, station selector, talk-listen lever, incoming volume control and silencing switch. The 20 watt amplifier is attached by a cable to the control unit and can be located at any convenient point remote from it. The amplifier contains a master volume control for outgoing signals. Each speaker has its own volume control, permitting adjustment for noise level at each location.

### LIST PRICES (with tubes)

W-305 MASTER STATION.....	\$87.00
Shipping Weight 22 lbs. Code: SALIE	
5 station selector switch and 20 watt amplifier	
W-310 MASTER STATION.....	100.00
Shipping Weight 22 lbs. Code: SALMO	
10 station selector switch and 20 watt amplifier	
W-300 SPEAKER.....	17.50
Shipping Weight 5 lbs. Code: SALPI	
8" speaker, impedance 44 ohms, double face wall baffle and volume control.	
W-301 SWITCH.....	2.50
Originating switch for W-300 speaker. Code: SMOKE	
W-100 SPEAKER.....	16.00
Desk model remote speaker in black ebony case, impedance 44 ohms, with originating switch and volume control.	
Shipping Weight 7 lbs. Code: SECTA	
JB-104 JUNCTION BOX.....	3.00
For use with W-305 Master. Code: JINXS	
JB-102 JUNCTION BOX.....	4.25
For use with W-310 Master. Code: JEWEL	

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

# INTER-COMMUNICATING SYSTEMS



## THE NEW W-400 SERIES "AMPLICALL" SYSTEMS

The W-400 series is a DeLuxe communication system of extreme flexibility. For example, some of the combinations that can be obtained are:

One Master with as many as 40 remote stations; or several Masters that can inter-communicate, combined with remote stations; or an all Master 40 station system with complete inter-communication between all points.

Models with earphone attachment are available for privacy. Unshielded cable containing one more conductor than the total number of stations is used for wiring between Master stations. Three conductor shielded cable is required between a Master station and each of its remote stations.

An installation using two or three Master stations, including a number of remote stations, with the latter desiring to call any one of two or three Masters requires a W-403 type remote station. The latter has a three position selector switch for choosing the master station desired. A system of this type requires a special combination of shielded and unshielded cables. (Refer to Industrial catalog No. 239 for complete details).

The amplifier is for 117 volt 50-60 cycle AC operation; power output 4 watts. Station selector switches are of the push-button type permitting calls to more than one station at a time, or a joint 3 or 4 way conversation. Controls include incoming volume control, AC switch and talk-listen lever.

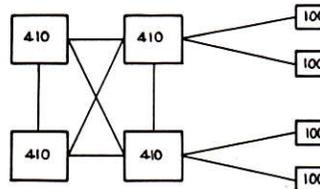


W-420 Master

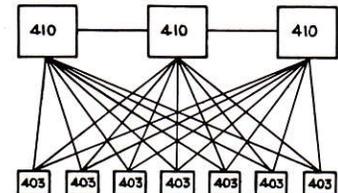


W-100

Illustrated to the left is the W-100, housed in black bakelite case complete with originating call switch and volume control. The W-403 is identical except equipped with 3-position selector switch for choosing any one of three master stations.



Scheme A



Scheme B

### INTER-COMMUNICATION CABLE

#### LIST PRICES (per 100 ft.)

#### SHIELDED CABLE FOR W-300 and W-400 SERIES

W-1155	2 conductor	\$ 4.85
W-1157	3 conductor	6.85

#### UNSHIELDED CABLE FOR W-200 and W-400 SERIES

2 conductor	2.05
3 conductor	4.15
4 conductor	5.25
5 conductor	6.50
6 conductor	7.75
7 conductor	9.00
8 conductor	10.20
9 conductor	11.40
10 conductor	12.60
11 conductor	13.80
12 conductor	14.90
13 conductor	16.00
14 conductor	17.30
15 conductor	18.50
16 conductor	19.70
17 conductor	20.90
18 conductor	22.00
19 conductor	23.20
20 conductor	24.40
21 conductor	25.60

### LIST PRICES (with tubes)

W-410 MASTER STATION	.....	\$65.00
For 10 stations. Shipping Wt. 16 lbs.		Code: SALTA
W-420 MASTER STATION	.....	75.00
For 20 stations. Shipping Wt. 17 lbs.		Code: SALVA
W-430 MASTER STATION	.....	85.00
For 30 stations. Shipping Wt. 18 lbs.		Code: SAMBU
W-440 MASTER STATION	.....	95.00
For 40 stations. Shipping Wt. 19 lbs.		Code: SANHE
W-100 REMOTE STATION	.....	16.00
Desk model remote speaker, black ebony case, impedance 44 ohms, with originating call switch and volume control.		
Shipping Weight 7 lbs.		Code: SAPOR
W-403 REMOTE STATION	.....	17.50
Same as W-100 except with 3 position selector.		
Shipping Weight 7 lbs.		Code: SARAC
NOTE: Any of above stations can be furnished with an earphone at \$6.00 additional list price. Add suffix "Q" to indicate same viz; W-410-Q is same as W-410 except with earphone.		
W-404 CONTROL BOX	.....	5.00
Contains talk-listen switch and 3-position selector. For use with W-300 in conjunction with 2 or 3 W-400 series Masters.		
Shipping Weight 1 lb.		Code: CHARI
JB-102 JUNCTION BOX	.....	4.25
For use with W-410 Master		Code: JEWEL
JB-105 JUNCTION BOX	.....	4.50
For use with W-420 Master		Code: JOLLY
JUNCTION BOXES for W-430 MASTER		
Use one JB-102 and one JB-105		
JUNCTION BOXES for W-440 MASTER		
Use two JB-105		

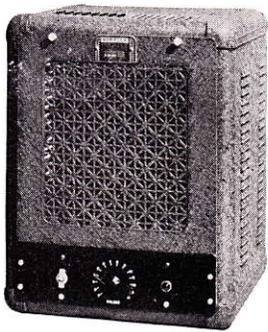
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# INDUSTRIAL PAGING SYSTEMS



DE-8



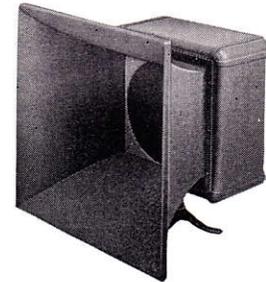
FC-120



PAGING AT SWITCHBOARD



BA-20



W-2618

Webster-Chicago Industrial AMPLICALL Systems are operating in a great many different types of factories, stores, offices and industrial plants through the country, such as The Chrysler Corporation of Detroit, The Compton Company of Chicago, The Delco Company of Kokomo, Ind., De Soto Motor Company of Detroit, Ford Motor Company of Detroit, Armour and Company of Chicago, Hotel Bond of Hartford and many others.

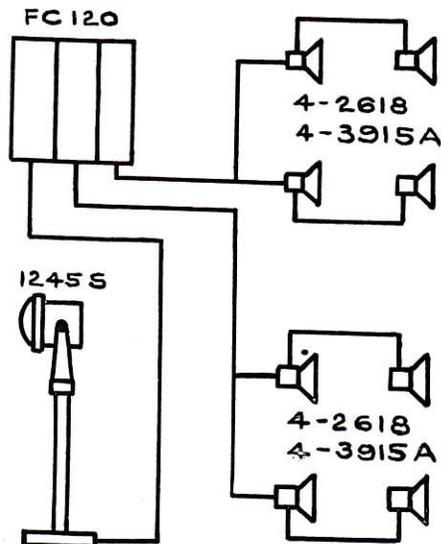
As pioneers in this field, Webster-Chicago have gained an invaluable experience for developing a special line of equipment built to fit the needs of the industry. At the same time, it is recognized that each installation has its own specific problems and requirements. Equipment is flexible as to application and varied enough as to models so that there is no installation too large or difficult to be adequately served.

Sound has a definite place in industry. Test installations have proved the advantages of music to level out the valleys in daily

production, saving many times its cost through reduced overhead, improved customer good will through better service and smoother functioning of any organization so equipped. Industrial sound equipment is of several types. A system may be used for locating employees, for musical reproduction, for inter-communication, for issuing instructions or describing operations under noise level conditions. Many installations require a combination of two or more of these various types.

Engineering help and recommendations will gladly be given if complete data and technical specifications are supplied to the factory by letter. Experienced technicians are also located throughout the country who are available to inspect industrial locations, and without obligation make recommendations as to equipment and installation. Catalog No. 239 is devoted entirely to AMPLICALL Industrial equipment and its applications. A copy will be sent upon request.

## TYPICAL "AMPLICALL" PAGING SYSTEM



Illustrated to the left is a diagram of a typical high power factory paging system. Amount of area to be covered and amount of noise level would determine whether a greater number of lower power speakers would give better coverage or whether a higher powered speaker chassis like the W-3914-A, using three for each 60-watt output would be needed.

The FC-120 is a wall mounting amplifier containing a high gain voltage amplifier with input for a high impedance microphone, driving two 60-watt power stages, giving a total output of 120 watts. Assembly may be purchased with one 60-watt stage and the second one added later. See pages 18 and 20 for complete descriptions of microphones, speakers, and baffles.

### LIST PRICES (with tubes)

FC-60 INDUSTRIAL AMPLIFIER (60 watts).....	\$135.00
Shipping Weight 70 lbs.	Code: AUTOM
FC-120 INDUSTRIAL AMPLIFIER (120 watts).....	210.00
Shipping Weight 90 lbs.	Code: AVAST
W-1245-S DYNAMIC MICROPHONE AND DESK STAND.....	34.00
Shipping Weight 11 lbs.	Code: MELAN
Complete with 25' shielded cable.	

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# INSTITUTIONAL SOUND SYSTEMS



SCHOOLS . . . . . HOSPITALS . . . . . HOTELS

- Dual Channel Operation
- Push Button Room Switches
- Automatic or Manual Phonograph
- Single-Button Emergency Call



- Independent Inter-communication System
- Dual Radio Reception
- Program Origination Any Room
- Capacity 20 to 160 Rooms

## SC-20 SYSTEM

The SC-20 is a dual channel centralized system with total facilities for 160 locations. It will distribute two programs simultaneously to two different groups of locations. An independent inter-communication system is included and allows a two-way conversation to be carried on simultaneously with the two regular programs without interference. It will distribute a microphone program originating from any one of 3 locations, a phonograph program from either a manually operated or automatic record changer mechanism, or choice of two radio pro-

grams to two different groups of locations selected as desired. It will also pick up a program in any room and send it to any other rooms over either channel. A single button emergency switch allows immediate call to all locations irrespective of any switch settings or programs in progress.

The system is assembled in a console desk cabinet of rugged metal construction finished in walnut grain. Compact in size, it is only 50" high overall, 47" wide and 31½" deep.

## S-40 SYSTEM

The S-40 is a single channel compact centralized system that will handle up to 40 locations. It will distribute a microphone pick-up, radio program, or phonograph reproduction to any one location, a group, or all locations. It will also pick up a program in any room and send to any other or all other rooms.

An independent inter-communication system is included and allows a two way conversation between the central unit and any one of the remote locations simultaneously with the main program without interference.

An emergency switch for each group of 10 or 20 locations allows immediate call over the entire system irrespective of individual switch settings; as for example an emergency call in case of fire.



S-40

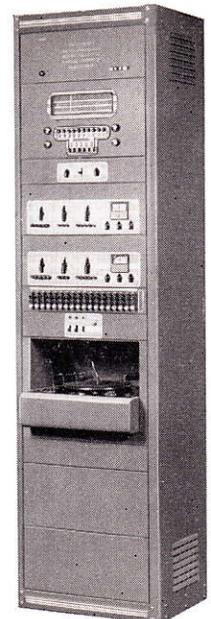
Systems are available for handling groups of 10, 20, 30, or 40 locations. The systems are assembled in an attractive metal case finished in grey crystalline.

Both 6" and 8" speakers are available in attractive walnut cabinets with sloping front panel for proper direction of sound throughout the room.— Ideal for those smaller schools where single channel facilities are adequate.

## RP-100 SYSTEM

The RP-100 is a centralized system of the rack and panel type. Flexible in design, with practically unlimited expansion facilities, it can be supplied for any number of channels. It has all the features of the SC-20 plus many more. A choice of as many as 10 remote microphone circuits are available, any two of which can be mixed. Power outputs as high as 280 Watts are offered in standard models.

The RP-100 is ideal for schools and colleges where a multiplicity of programs and pick-up points as well as high power are required. While panels are standardized in design, every RP-100 is custom built to fill the requirements of each installation.



RP-100

Catalog No. 439 gives complete specifications and prices on all Webster-Chicago institutional systems.

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