RCA LOUDSPEAKERS AND REPLACEMENT PARTS

		T 1	T	T						
TERMINAL BOARD 10. Stk.No.	N.U. N.U. N.U.	N.U. N.U. 6184 N.U.	N.S. N.U. 4448 N.S. N.S.	N.S. 4448 4448 4418 N.U.	N.U. 6184 6184 6184 6184	N.S. 6184 6184 12482 N.U.		w w w w w w	11232 11232 11232 N.U.	N.U. 11232 11232 11232 11954
TERMINA No. Terms.	87	, v	ь.	ಬಣಬ	ยยยย	ಬಬಬ	es	හ 4 හ හ හ <i>හ</i>	ກະນ	8884 888
G Stk.No.		N.U. N.U. N.U.	N.U. N.U. N.U. N.U.	N.U. N.U. N.U. N.U. (1) 5118	(1) 5118 N.U. N.U. N.U.	N.U. N.U. N.U. N.U. (1) 5118	(1) 5118 N.U. (1) 5118 (2) 12567 N.U.	22 7		(3) 5039 (5) 5039 (1) 5118 (5) 5039 (4) 11953
PLU Con- tacts.				JW 2M			3M 3M 5M	3M 5M	3M 3M 3M 3M	4M 4M 3M 4M 6M
Output Trans. Stk.No.	6591 6477 6467	6764 6509 6788 12500 13151	7846	6988 4505 4803 4505 4893	4893 6467 6467 6730 6476	6788 6476 13678	13823 6996 12575 13903	4818 9535 4818 9535 5090	11253 11253 11853 11843	11840 11828 11253 12080 11253
Neut. Coil Stk.No.	N.U. N.U. N.U.	N.U. N.U. N.U. 12731	N.U. N.U. N.U. N.U. N.U.	i n i n i n i n i n i n i n i n i n i n	N.U. N.U. N.U. N.U.	N.U. N.U. N.U. N.U.	N.S. N.U. 12446 N.S. N.U.	N N N N N N N N N N N N N N N N N N N	11233 11233 11469 N.S.	11842 11233 11469 11233
Field Coil Stk.No.		→ 9457 → 9459 → 7606 → 9437 12499 13149	N.R. N.U. A 7845 A 9493	9498 9531 9548 9531 9587	→ 11672 → 9041 → 9448 → 9450	N.U. \$\infty\$ 9486 \$\infty\$ 9041 12450 13676	13822 N.U. 12576 13901 N.U.	9579 9534 9579 9534	11234 11254 11470 N.R. 11844	11841 11983 12012 12079 11254
Dust Cap Stk.No.	N.U. N.U. N.U.		N.S.S. N.U. N.U. N.U.	N.U. N.U. N.U. N.U.		တို့ တို့	N. W.	N.U. N.U. N.U. N.U.	N°U. N°U. N°U. N°U.	.u.n N.u. N.u. N.u. N.u.
Cone & Voice Coil Stk.No.	8987 7594 7598 8987	8987 8987 8987 8987 12498	1	9499 9492 9588 9588 9588	9588 9428 9428 9428	9428 9428 9428 ⊖ 12451 ⊖ 13677	(A) 13821 9428 (A) 12574 (A) 13902 9539	+ 9533 + 9533 + 9533 + 9533 9598	11235 11235 11235 11836 11838	11838 11235 11235 11235 11235
Field D. C. Resis. (ohms)	5900 P.M. P.M.	1800 5900 3000 3000		40 1290 1800 1290	1800 1364 1060 1350	P.W. 1800 1364 4	1290 P.M. 1875 825 P.M.	1290 1070 1290 1070	1800 845 1000 845 845	1800 5500 1290 1060 845
V.C.Im- pedance (ohms)	4.0 4.0 4.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.60 0.44 0.044 0.44	4 4 4 4 4	00000	4 4 4 8 8 0 0 0 0 0	24 22 24 30 33 33 0	00000	യു വ് വ വ് വ് വ് ന് പ്	.
Spkr. No. Stamped on Spkr.Frame		RL 57-3 RL 57-5 RL 54-5 RL 57-6 80864-1	80864-2 81362-2 73245-1 RL 61A-1 RL 61-1			RL 59-3 RL 55A-1 RL 55-6 72684-1	72870-1 RL 59-5 72742-2 72854-2 71. 52-4	72203-2 72203-1 72203-5 72203-4 72253-2	RL 63-5 RL 63-4 RL 63A-2 76365-1	76365-2 RL 638-2 RL 63A-6 RL 63B-4 RL 63B-4
Speaker Stk.No.	9044 9426 9429 9439	9436 9458 9462 9467 9684	** 97750 ** 9470 7847 7847 9491	9497 9514 9547 9561	9630 9630 9043 9440 9447	* 9453 9485 9485 9487 9487 9687	9776 9776 9502 9779 9779	1	9617 9618 9621 9634	9636 9637 9638 9643 9658
Ext.Dia. Cone Housing (inches)	മവവ	រលួលល្ល	5 5-1/32 6-15/32 6-15/32	6-15/32 6-15/32 6-15/32 6-15/32	6-15/32 6-9/16 6-9/16 6-9/16	6-9/16 6-9/16 6-9/16 6-9/16 6-9/16	6-9/16 6-9/16 6-5/8 6-41/64	8-13/64 8-13/64 8-13/64 8-13/64 8-13/64	8-13/64 8-13/64 8-13/64 8-13/64	8-13/64 8-13/64 8-13/64 8-13/64 8-13/64

RCA LOUDSPEAKERS AND REPLACEMENT PARTS (Continued)

TERMINAL BOARD O. Stk.No.	12641 12641 12914 12914	15063 12914 12914 12641 12641	11232 N.S. 4193 N.S. 4193	4473 4193 4473 5124 4193	4473 4193 4193 4473 4193	4193 4473 5124 N.U.	N.U. 11232 8059 11232 8059	11232 8059 8059 12641	12914 8059 12914 12914 12641	8059 12914 12914 11934	male Section, Use Stock No. 13542 Stocked Separately, Supplied With Cone
Z F	5118 3 2567 3 5118 2 5118 2		m	0. 4. 10. 10. 4. 10. 10. 4. 10. 10. 4. 10. 10. 4. 10. 10. 4. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10		.u. $\left\langle \frac{4}{3} \right\rangle$ I.u. 5 5039 5118	5039 5118 5039 5118 5039		5118 2 5039 2 5118 2 5118 2 5118 3) 12567 2 5118 2 5118 2 Use Stock No. 11934	-For Female Section, Use Stock No. 15542 SNot Stocked Separately, Supplied Wit
stk.No.	(1) 5118 (2) 12567 (1) 5118 (1) 5118 (1) 5118		ZAZA			N.U. N.U. (3) 503 (1) 511	(1) (2) (3) (4) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7			(2) 125 (1) 51 (1) 51 (1) 51	tion, Use
S. Con-		3 N S S S S S S S S S S S S S S S S S S		0.10.0		2 4 4 W				2568	Female Sec Not Stocked
Trans.	11253 11828 12913			6770 6455 6569	6770 4506 4472 4637	7826 7834 5080 4892		11253 8057 12568 11253	12913 13007 12913 12889 11253	(4)	(5) N.S.
Coil Coil	12 11469 74 11469 . N.U. 12 N.U. N.U.	4 00 0 4	~ 0 10							1 1 -	Stock No. 5119 Stock No. 12493
Coil Co. Stk.No.	12012 12674 N.U.			1	44848		1 444	44	4	(a) 12474 13867 \times 13614 13660	-For Female Section, Use Stock No.
cap Cap Stk.No	12642 13866 12642 13866 12642 13866 12642 13866									174 13867 15866 167 13866 167 13866 1 Include Cu	Female Section,
. Voice s. Coil Stk.No.	00000	00000						ΦΦΦ	000 00	1 1 "	(1) -For F(2) -For Fe
nce D. C. s) Resis. (ohms)		2 1800 2 2 2000 2 2 2000 2 1000	1 H 63 H	1997					2 1000		ă u,
on pedance (ohms)				4 4 4 4 4	K 4		102 03			69A-3 12.0 70D-1 2.2 70B-5 2.2 -Permanent Magnet	N.RNot Replaceable
Spkr. No. Stamped on Spkr.Frame	RL 63C-1 RL 63C-3 RL 73-1 RL 63D-1		1	RL 50-6 RL 60-1 RL 60-2 RL 53-1 RL 53-1	i		12 12 12 12 12 12 12 12 12 12 12 12 12 1	2000年2000年2000年2000年200日	대대대대	RL 69A-3 RL 70D-1 RL 70B-5 P.WPerma	N.RNot]
Stk.No.	9699 9711 * 9712 9714	9720 9757 9758 9768 9771	11826 * 9455 9480 * 7819	** 9438 9445 9461 9463 9463	9474 \$ 9474 9508 9527 9536	9541 9543 9582 9583	9619 9619 9629 9622 9622	9639 9652 9694 9696 9696	9716 9719 9736 9758 9758	97.67 \$97.80 \$tocked	Used
Ext.Dis. Cone Housing (inches)	8-13/64 8-13/64 8-13/64 8-13/64	8-13/64 8-13/64 8-13/64 8-13/64 8-13/64	8-13/64 10-1/4 10-1/4 10-3/8 10-3/8	10-3/8 10-3/8 10-3/8 10-3/8	10-3/8 10-3/8 10-3/8 10-3/8	10-3/8 10-3/8 10-3/8 10-3/8	10-3/8 12-5/16 12-5/16 12-5/16	12-5/16 12-5/16 12-5/16 12-5/16 12-5/16	12-5/16 12-5/16 12-5/16 12-5/16 12-5/16	12-5/16 12-5/16 12-5/16 * 9	N.UNone Used W -Welle Section

RADIO DEFINITIONS*

"A" Power Supply. A power supply device providing heating current for the cathode of a vacuum tube.

Alternating Current, A current, the direction of which reverses at regularly recurring intervals, the algebraic average value being zero.

Amplification Factor. A measure of the effectiveness of the grid voltage relative to that of the plate voltage in affecting the plate current.

Amplifier. A device for increasing the amplitude of electric current, voltage or power, through the control by the input power of a larger amount of power supplied by a local source to the output circuit.

Anode. An electrode to which an electron stream flows.

Antenna. A conductor or a system of conductors for radiating or receiving radio waves.

Atmospherics. Strays produced by atmospheric conditions.

Attenuation. The reduction in power of a wave or a current with increasing distance from the source of transmission.

Audio Frequency. A frequency corresponding to a normally audible sound wave. The upper limit ordinarily lies between 10,000 and 20,000 cycles. Audio-Frequency Transformer, A transformer for use with audio-frequency currents.

Autodyne Reception. A system of heterodyne reception through the use of a device which is both an oscillator and a detector.

Automatic Volume Control. A self-acting device which maintains the output constant within relatively narrow limits while the input yoltage varies over a wide range.

"B" Power Supply. A power supply device connected in the plate circuit of a vacuum tube.

Baffle. A partition which may be used with an acoustic radiator to impede circulation between front and back.

Band-Pass Filter. A filter designed to pass currents of frequencies within a continuous band limited by an upper and a lower critical or cut-off frequency and substantially reduce the amplitude of currents of all frequencies outside of that band.

Beat. A complete cycle of pulsations in the phenomenon of beating.

Beat Frequency. The number of beats per second. This frequency is equal to the difference between the frequencies of the combining waves.

Beating. A phenomenon in which two or more periodic quantities of d ferent frequencies react to produce a resultant having pulsations amplitude.

ferent frequencies feact to produce a resultant having pulsations of amplitude.

Broadcasting. Radio transmission intended for general reception.

By-Pass Condenser. A condenser used to provide an alternating-current path of comparatively low impedance around some circuit element.

"C" Power Supply. A power supply device connected in the circuit between the cathode and grid of a vacuum tube so as to apply a grid bias.

Capacitive Coupling. The association of one circuit with another by means of capacity common or mutual to both.

Carbon Microphone. A microphone which depends for its operation upon the variation in resistance of carbon contacts.

Carrier. A term broadly used to designate carrier wave, carrier current, or carrier roltage.

Carrier Frequency. The frequency of a carrier wave.

Carrier Suppression. That method of operation in which the carrier wave is not transmitted.

Carrier Wave. A wave which is modulated by a signal and which enables

not transmitted.

Carrier Wave. A wave which is modulated by a signal and which enables the signal to be transmitted through a specific physical system.

Cathode. The electrode from which the electron stream flows. (See Filament.)

Choke Coil. An inductor inserted in a circuit to offer relatively large impedance to alternating current.

Class A Amplifier is an amplifier in which the bias and exciting grid voltages are such that the plate current through the tube flows at all times. The ideal Class A Amplifier is one in which the alternating component of the plate current is an exact reproduction of the class of the input signal, and the plate current flows during the 360 electrical degrees of the cycle. The characteristics of a Class A Amplifier are low efficiency and output.

Class B Amplifier is an amplifier in which the grid bias is approximately.

signal, and the plate current flows during the 360 electrical degrees of the cycle. The characteristics of a Class A Amplifier are low efficiency and output.

Class B Amplifier is an amplifier in which the grid bins is approximately equal to that required to cut off the plate current to approximately zero when no exciting grid voltage is applied. So that the antercent in a tube flows during approximately one-half and cycle when an exciting grid voltage is applied. The telepate current shall excite the near exciting grid voltage is applied. The telepate current shall excite when the alternating componence when the grid is positive with respect to the bins viago, and the plate current flows 180 electrical degrees. The characteristics of a Class B Amplifier are medium efficiency and output.

Class C Amplifier is an amplifier in which the grid bins is appreciably more than necessary to cut off the plate current to zero when ne exciting grid voltage is present, so that the plate current to zero when ne exciting grid voltage is present. An unpresent in each cycle Amplifier and excitency grid voltage is present. An unpresent in each cycle Amplifier and exciting grid voltage is present. An unpresent in each cycle Amplifier application is confined to the cycle and the plate current flows during appreciably more cultivement and where departures from linearity between input and output are permissible. The characteristics of a Class C Amplifier are high-plate-circuit efficiency and high power output.

(1) A Class AB Amplifier is one in which the bias and exciting grid voltages are such that the plate current flows during appreciably more than 180 electrical degrees of the cycle. This has also been called Class. "A prime." The characteristics of a Class A Amplifier are efficiency and output intermediate between a Class B Amplifier are efficiency and output intermediate between a Class B Amplifier. The idle plate current flows during less than 180 electrical degrees of the cycle.

(2) A Class BC Amplifier is an amplifier in

variations in capacitance. Continuous Waves. Continuous Waves. Continuous Waves. Continuous are identical under steady state conditions. Conversion Transconductance is the ratio of the magnitude of a single beat-frequency component $(f_1 + f_2)$ or $(f_1 - f_3)$ of the output current to the magnitude of the input voltage of frequency f_1 under the conditions that all direct voltages and the magnitude of the second input alternating voltage f_2 must remain constant. As most precisely used, it refers to an infinitesimal magnitude of the voltage of frequency f_3 .

* Most of these definitions are based on I.R.E. Standards.

Converter (generally, in superheterodyne receivers). A converter is a vacuumtube which performs simultaneously the functions of oscillation and
mixing (first detection) in a radio receiver.

Coupling. The association of two circuits in such a way that energy may
be transferred from one to the other.

Cross Modulation. A type of intermodulation due to modulation of the
carrier of the desired signal in a radio apparatus by an undesired signal.

Current Amplification. The ratio of the alternating current produced in the
output circuit of an amplifier to the alternating current supplied to the
input circuit for specific circuit conditions.

Cycle. One complete set of the recurrent values of periodic phenomenon.

Damped Waves. Waves of which the amplitude of successive cycles, at the
source, progressively diminishes.

Decibel. The common transmission unit of the decimal system, equal to

Diaphragm. A diaphragm is a vibrating surface which produces sound vibrations.

Diode. A type of thermionic tube containing two electrodes which passes current wholly or predominantly in one direction.

Direct Capacitance (C) between two conductors—The ratio of the charge produced on one conductor by the voltage between it and the other conductor divided by this voltage, all other conductors in the neighborhood being at the potential of the first conductor.

Direct Coupling. The association of two circuits by having an inductor, a condenser, or a resistor common to both circuits.

Direct Current. An undirectional current. As ordinarily used, the term designates a practically non-pulsating current.

Distortion. A change in wave form occurring in a transducer or transmission medium when the output wave form is not a faithful reproduction of the input wave form.

Double Modulation. The process of modulation in which a carrier wave of

or the input wave form.

Double Modulation. The process of modulation in which a carrier wave of one frequency is first modulated by the signal wave and is then made to modulate a second carrier wave of another frequency.

Dynamic Amplifier. The RCA Dynamic Amplifier is a variable gain audio amplifier, the gain of which is proportional to the average intensity of the audio signal. Such an amplifier compensates for the contraction of yolume range required because of recording or transmission line limitations limitations

nmitations.

Dynamic Sensitivity of a Phototube. The alternating-current response of a phototube to a pulsating light flux at specified values of mean light flux, frequency of pulsation, degree of pulsation, and steady tube voltage.

Electro-Acoustic Transducer. A transducer which is actuated by power from an electrical system and supplies power to an acoustic system or vice yours.

versa.

Electron Emission. The liberation of electrons from an electrode into the surrounding space. In a vacuum tube it is the rate at which the electrons are emitted from a cathode. This is ordinarily measured as the current carried by the electrons under the influence of a voltage sufficient to draw away all the electrons.

Electron Tube. A vacuum tube evacuated to such a degree that its electrical characteristics are due essentially to electron emission.

Emission Characteristic. A graph plotted between a factor controlling the emission (such as the temperature, voltage, or current of the cathode) as abscissas, and the emission from the cathode as ordinates.

Facsimile Transmission. The electrical transmission of a copy or reproduction of a picture, drawing or document. (This is also called picture transmission.)

ransmission.)

Fading. The variation of the signal intensity received at a given location from a radio transmitting station as a result of changes occurring in the transmission path. (See Distortion.)

Fidelity. The degree to which a system, or a portion of a system, accurately reproduces at its output the signal which is impressed upon it.

Filment. A cathode in which the heat is supplied by current passing through the cathode.

through the cathode.

Filter. A selective circuit network, designed to pass currents within a continuous band or bands of frequencies or direct current, and substantially reduce the amplitude of currents of undesired frequencies.

Frequency. The number of cycles per second.

Full-Wave Rectifier. A double element rectifier arranged so that current is allowed to pass in the same direction to the load circuit during each half cycle of the alternating-current supply, one element functioning during one-half cycle and the other during the next half cycle, and so on.

Fundamental Frequency. The lowest component frequency of a periodic wave or quantity.

Fundamental or Natural Frequency (of an antenna). The lowest resonant frequency of an antenna, without added inductance or capacity.
 Gas Phototube. A type of phototube in which a quantity of gas has been introduced, usually for the purpose of increasing its sensitivity.

Grid. An electrode having openings through which electrons or ions may pass.

Grid Bias. The direct component of the grid voltage.

Grid Condenser. A series condenser in the grid or control circuit of a vacuum tube.

vacuum tune.

Grid Leak, A resistor in a grid circuit, through which the grid current flows, to affect or determine a grid bias.

Grid-Plate Transconductance. The name for the plate current to grid voltage transconductance. (This has also been called mutual conductance.)

Ground System (of an antenna). That portion of the antenna system below the antenna loading devices or generating apparatus most closely associated with the ground and including the ground itself.

ciated with the ground and including the ground itself.

Ground Wire. A conductive connection to the earth.

Half-Wave Rectifier. A rectifier which changes alternating current into pulsating current, utilizing only one-half of each cycle.

Harmonic. A component of a periodic quantity having a frequency which is an integral multiple of the fundamental frequency. For example, a component the frequency of which is twice the fundamental frequency is called the second harmonic.

Heater. An electrical heating element for supplying heat to an indirectly heated cathode.

Heterodyne Reception. The process of receiving radio waves by combining in a detector a received voltage with a locally generated alternating voltage. The frequency of the locally generated voltage is commonly different from that of the received voltage. (Heterodyne reception is sometimes called beat reception.)

Homodyne Reception. A system of reception by the aid of a locally generated voltage of carrier frequency. (Homodyne reception is sometimes called zero-beat reception.)

cancu zero-ocat reception.)

Hot-Wire Ammeter, Expansion Type. An ammeter dependent for its indications on a change in dimensions of an element which is heated by the current to be measured.

cations on a change in dimensions of an element which is heated by the current to be measured.

Indirectly Heated Cathode. A cathode of a thermionic tube, in which heat is supplied from a source other than the cathode itself.

Induction Loud Speaker is a moving coil loud speaker in which the current which reacts with the polarizing field is induced in the moving member.

Inductive Coupling. The association of one circuit with another by means of inductance common or mutual to both.

Interlectrode Capacitance. The direct capacitance between two electrodes.

Interference. Disturbance of reception due to strays, undesired signals, or other causes; also, that which produces the disturbance.

Intermediate Frequency, in Superheterodyne Reception. A frequency between that of the currier and the signal, which results from the combination of the carrier frequency and the locally generated frequency.

Intermediation. The production, in a non-linear circuit element, of frequencies corresponding to the sums and differences of the fundamentals and harmonics of two or more frequencies which are transmitted to that element.

element.

Interrupted Continuous Waves. Interrupted continuous waves are waves obtained by interruption at audio frequency in a substantially periodic manner of otherwise continuous waves.

When used as a unit of frequency, is a thousand cycles per second.

manner of otherwise continuous waves.

Kilocycle. When used as a unit of frequency, is a thousand cycles per second.

Lead-In. That portion of an antenna system which completes the electrical connection between the elevated outdoor portion and the instruments or disconnecting switches inside the building.

Linear Detection. That form of detection in which the audio output voltage under consideration is substantially proportional to the modulation envelope throughout the useful range of the detecting device.

Loading Coil. An indusfor inserted in a circuit to increase its inductance but not to provide coupling with any other circuit.

Loud Speaker. A telephone receiver designed to radiate acoustic power into a room or open air.

Magnetic Loud Speaker. One in which the mechanical forces result from magnetic reactions.

Magnetic Microphone. A microphone whose electrical output results from the motion of a coil or conductor in a magnetic field.

Master Oscillator. An oscillator of comparatively low power so arranged as to establish the carrier frequency of the output of an amplifier.

Megacycle. When used as a unit of frequency, is a million cycles per second.

Mercury-Vapor Rectifier. A mercury-vapor rectifier is a two electrode, vacuum-tube rectifier which contains a small amount of mercury. During operation, the mercury is vaporized. A characteristic of mercury-vapor rectifiers is the low-voltage drop in the tube.

Microphone. A microphone is an electric system of mercury apor rectifiers is the low-voltage drop in the tube.

Microphone. A microphone is an electric system corresponding to the wave form in the electric system corresponding to the wave form in the electric system corresponding to the wave form in the electric system corresponding to the wave form in the electric system corresponding to the wave form in the electric system corresponding to the wave form in the electric system corresponding to the wave form in the electric system corresponding to the wave form in the electric system corresponding to

Speaker.)
Mu-Factor. A measure of the relative effect of the voltages on two electrodes upon the current in the circuit of any specified electrode. It is the ratio of the change in one electrode voltage to a change in the other electrode voltage, under the condition that a specified current remains unchanged.
Mutual Conductance. (See Grid-Plate Transconductance.)
Oscillator. A non-rotating device for producing alternating current, the output frequency of which is determined by the characteristics of the device.

Oscillatory Circuit. A circuit containing inductance and capacitance, such that a voltage impulse will produce a current which periodically

reverses.

Pentode. A type of thermionic tube containing a plate, a cathode, and three additional electrodes. (Ordinarily the three additional electrodes are of the nature of grids.)

Percentage Modulation. The ratio of half the difference between the maximum and minimum amplitudes of a modulated wave to the average amplitude, expressed in per cent.

Phonograph Pickup. An electromechanical transducer actuated by a phonograph record and delivering power to an electrical system, the wave form in the electrical system corresponding to the wave form in wave phonograph record.

Phototube. A vacuum tube in which electron emission is produced by the content of the

intotube. A vacuum tube in which electron emission is produced by the illumination of an electrode. (This has also been called photo-electric

illumination of an electrode. (This has also been called photo-electric tube.)

Plate. A common name for the principal anode in a vacuum tube.

Power Amplification (of an amplifier)—The ratio of the alternating-current power produced in the output circuit to the alternating-current supplied to the input circuit.

Power Detection. That form of detection in which the power output of the detecting device is used to supply a substantial amount of power directly to a device such as a loud speaker or recorder.

Pulsating current. A periodic current, that is, current passing through successive cycles, the algebraic average value of which is not zero. A pulsating current is equivalent to the sum of an alternating and a direct current.

Push-Pull Microphone. One which makes use of two functioning elements 180 degrees out of phase.

Radio Channel. A band of frequencies or wavelengths of a width sufficient to permit of its use for radio communication. The width of a channel depends upon the type of transmission. (See Band of Frequencies.)

Radio Compass. A direction finder used for navigational purposes.

Radio Compass. A frequency higher than those corresponding to normally audible sound waves. (See Audio Frequency.)

Radio-Frequency. A device for converting radio waves into percentible

Receiver. A device for converting radio waves into perceptible

Radio Transmission. The transmission of signals by means of radiated electromagnetic waves originating in a constructed circuit.

Radio Transmitter. A device for producing radio-frequency power, with means for producing a signal.

Rettifer. A device baving an asymmetrical conduction characteristic which is used for the conversion of an alternating current into a pulsating current. Such devices include vacuum-tube rectifiers, gas rectifiers, oxide rectifiers, electrolytic rectifiers, etc.

Refex Circuit Arrangement. A circuit arrangement in which the signal is amplified, both before and after detection, in the same amplifier tube or tubes

current. Such devices include summariants current into a pulsating rectifiers, electrolytic rectifiers, exist rectifiers, oxide rectifiers, electrolytic rectifiers, exist rectifiers, oxide rectifiers, electrolytic rectifiers, exist amplified, both before and after detection, in the same amplifier tube or tubes.

Regeneration. The process by which a part of the output power of an amplifying device reacts upon the input circuit in such a manner as to times called "rectifiers" or "reaction.")

Resistance Compling. The association of one circuit with another by means of resistance common to both.

Resonance Frequency (of a reactive circuit).—The frequency at which the supply current and supply voltage of the circuit are in phase.

Rheostar. A resistor which is provided with means for readily adjusting Screen Grid. A screen grid is a grid placed between a control grid and an anode, and maintained at a fixed positive potential, for the purpose of reducing the electrostatic influence of the anode in the space between the screen grid and the cathode.

Secondary Emission. Electron emission under the influence of electron or selectivity. The degree to which a radio receiver is capable of differentiating between signals of different carrier frequencies.

Sensitivity. The degree to which a radio receiver responds to signals of the frequency to which it is tune of the sensitivity of a Phototube. The electrical current response of a phototube.

Sensitivity of a Phototube. The electrical current response of a phototube.

Sensitivity of a Phototube, The electrical current response of a phototube. Sensitivity depends upon the tube voltage, flux intensity, and aspectral distribution of the flux.

Service Band. A band of frequencies allocated to a given class of radio side band is transmitted, and the current for a given read and a process of modulation. Signal. The intelligence, message or effect conveyed in communication. Signal. The intelligence, message or effect conveyed in communication. Signal. The bando of frequencies and

or acoustic.

Transmission Unit. A unit expressing the logarithmic ratios of powers, voltages or currents in a transmission system. (See Decibel.)

Triede A type of thermionic tube containing an anode, a cathode, and a third electrode, in which the current flowing between the anode and the cathode may be controlled by the voltage between the third electrode and the cathode.

The Transformer A transformer whose consists of the controlled by the voltage between the third electrode and the cathode.

and the cathode.

Tuned Transformer. A transformer whose associated circuit elements are adjusted as a whole to be resonant at the frequency of the alternating current supplied to the primary, thereby causing the secondary voltage to build up to higher values than would otherwise be obtained.

Tuning. The adjustment of a circuit or system to secure optimum performance in relation to a frequency; commonly, the adjustment of a circuit or cricuits to resonance.

Vacuum Phototube. A type of phototube which is evacuated to such a degree that the residual gas plays a negligible part in its operation. Vacuum Tube. A device consisting of a number of electrodes contained within an evacuated enclosure.

Vacuum-Tube Transmitter. A radio transmitter in which vacuum tubes are utilized to convert the applied electric power into radio-frequency power.

power.

Vacuum-Tube Volt-Meter. A device utilizing the characteristics of a vacuum tube for measuring alternating voltages.

Voltage Amplification. The ratio of the alternating voltage produced at the output terminals of an amplifier to the alternating voltage impressed at the input terminals.

Voltage Divider. A resistor provided with fixed or movable contacts and with two fixed terminal contacts; current is passed between the terminal contacts, and a desired voltage is obtained across a portion of the resistor. (The term potentiometer is often erroneously used for this device)

device.)

Wave. a. A propagated disturbance, usually periodic, as an electric wave or sound wave.

b. A single cycle of such a disturbance, or.

c. A periodic variation as represented by a graph.

Wavelength. The distance traveled in one period or cycle by a periodic disturbance.

* Most of these definitions are based on I.R.E. Standards.