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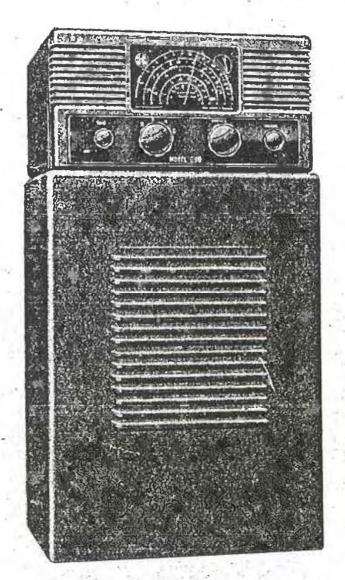
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SPECIFICATION



EDDYSTONE RECEIVER TYPE 659.

GENERAL.

The "659" Receiver has been specially developed for overseas use and will give consistently good reception of both short and medium wave broadcast stations in any part of the world, and under any climatic conditions. Many refinements are included in the design, which has received careful attention to ensure that the performance shall be of a high standard in all respects.

The following are outstanding features of the Receiver:—
Excellent Sensitivity.
Good Selectivity.
Good Frequency Stability.
Accurate Calibration.
Flywheel controlled Tuning Mechanism.
Edge Illuminated Dial.
Robust Construction.

Two models are manufactured. One, designated "659/AC," operates from A.C. mains, 40/60 cycles, 200/240 or 110 volts, the consumption being about 45 watts. The other model—the "659/B"—has a vibrator power unit, the consumption being 5-9 amps. from a 6 volt accumulator.

EDECLIENCY COVERACE

Four switched ranges cover all the principal short and medium wave broadcast bands. The exact coverage is:—

Band I. 30 to 12-8 Mc/s. (10 to 23:5 metres).

Band 2. 13 to 5-8 Mc/s. (23-1 to 51-7 metres).

Band 3. 2.75 to 1.2 Mc/s. (110 to 250 metres).

Band 4. 248 to 575 Metres (1220 to 522 Kc/s.).

There is an overlap between Bands I and 2, and between Bands 3 and 4. The first three ranges are calibrated in frequency and the fourth in wavelength, to conform to published details of broadcasting stations. An additional feature, for ease of identification, is the colour marking of the short wave broadcast and amateur bands, and a further indication in metres of each short wave broadcast band.

It is of interest to note that the 28, 14, 7 and 1.7 Mc/s. Amateur Bands are included and also the 150 metre Shipping Band.

TUNING MECHANISM.

The tuning mechanism has a high reflection ratio and is flywheel controlled, giving smooth, positive operation. A special logging scale is provided at the top right hand content of the dial, giving an actual scale length of 90 inches. The exact raiding of any particular station can be noted, to enable the user to return to it at any time. The Electronic Tuning Indicator ("Magle-Eye") fitted at the top left hand corner assets in tuning in attaions accurately.

The dial, which is edge illuminated, is distinctive in appearance and easily rendable.

CIRCUIT (see Fig. 1 at year of book).

The R.F. Ampillier stage employs a low noise pentode, which, in conjunction with the very efficient coils, gives a high gain.

The frequency changer valve is a triode-hexode. It is followed by an intermediate Frequency Amplifier, using efficient transformers with permeability tuned coils. The interestign couplings in the R.F. and I.F. sections have been carefully adjusted to accure maximum sensitivity and adequate selectivity.

A double diode-triode valve performs the functions of signal reculfer and first audio amplifier. It also provides A.V.C. voltage which is fed to the three earlier valves, to counteract feding.

The output stage employs a beam power valve capable of delivering up to 3 wasts of audio output. Negative feedback is incorporated, giving improved quality of reproduction.

Electrical inconference can at times be troublesome on short waves, and a noise limiter has therefore been fitted. It can be brought in and out of circuit, as desired.

A full ware, indirectly heated rectifier, with ample amouthing, ensures good regu- (

VALVE SEQUENCE.

The positions of the vidres are shown in Fig. 4, and the types used are at follows :---

VI.	R. F. Amp.	EF39	Mulberd
V2	Frequency Changer	6KBGT	Briman
A3	LE. Amp.	EF39	Hulland
V4	Der Isr Audio, A.V.C.	EBC38	Mulbard
V5	Output Valve	6V6GT	Bryman
V5	Power Rectifier	6X3GT	Briman
V7	Noise Limiter	EB34	Mullard
V8	Tuning Indicator	6M34	Mulland

CONSTRUCTION.

The R F, coils are housed in a discust box, which is furnly secured to the discust from panel. These two units form a rigid foundation around which the receiver is built.

All components are tropicalised and versilation has been carefully arranged to provent any undue temperature rise.

INSTALLATION AND OPERATION (659/AC)

The receiver has been aligned, calibrated and thoroughly tested before packing. The mains voltage selector panel at the rein (one Fig. 3) is normally set in the 230 volta position, where it may remain for input voltages between 215 and 240 volts. For mains voltages between 210 and 195, the selector should be inserted in the 200 volt position. A further adjustment is provided for supplies of 110/115 volts.

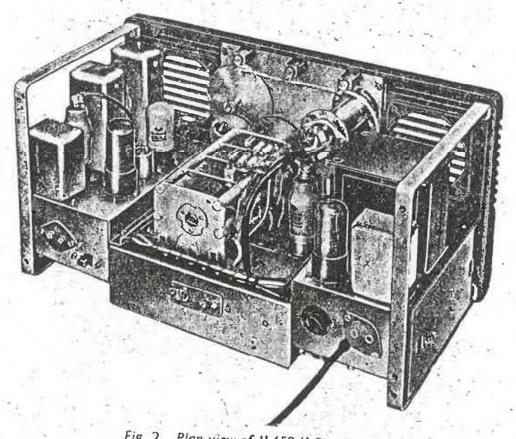


Fig. 2. Plan view of "659" Receiver.

Fig. 3 Indicates the appropriate connections to be made to the receiver. For general use, an aerial about 60 feet long should be erected as high as possible and clear of other objects, but good results will be secured on shorter aerials, particularly on the higher frequencies. The lead-in wire should be connected to the rear terminal marked "A," and if possible, a good earth to the terminal marked "AE," the latter remaining strapped to the chassis.

The doublet aerial is preferable when it is desired to secure optimum results on any particular band of frequencies. In this case, the twin feeders, of about 400 ohms Impedance, should be connected to the two terminals after removing the strap between

The console speaker is arranged to provide a stand for the receiver.

CONTROLS.

The controls are clearly indicated and comprise :-

Tuning Knob.

Band Selector Knob.

Volume Control.

Combined Tone Control and On/Off Switch.

The Band Selector switch has five positions, the first four of which are numbered to agree with the numbers against each range on the dial. In the fifth position, marked G." the radio section of the receiver is rendered inoperative, to avoid breakthrough when using a gramophone pick-up. The latter is connected to the two terminals indicated in Fig. 3, and should, for preference, be of the medium impedance type. The modern lightweight armature pick-up, with, if necessary, a suitable input transformer, will be found to give very satisfactory results.

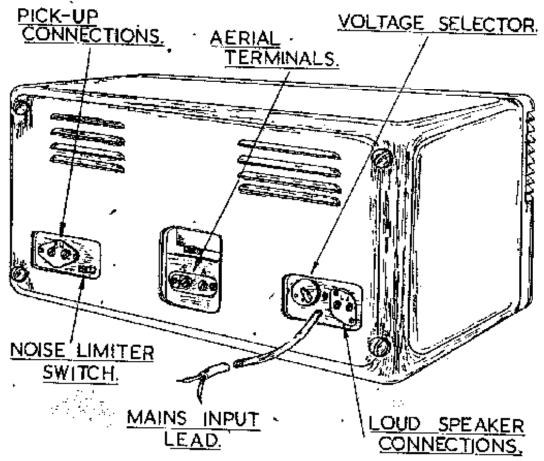


Fig. 3. Rear outline of the "659" Receiver with details of external connections.

Tuning is carried out in the normal way, after setting the Band Selector Switch to the appropriate range. Volume and tone are then adjusted to suit individual tastes and circumstances.

NOISE LIMITER,

When using the short wave ranges — particularly Band 1 — in some locations trouble may be experienced from noise of a peaky nature, such as is produced by the Ignition systems of cars, etc., electrical appliances and so forth.

At the reamof the receiver is a small switch, indicated in Fig. 3. Sliding this along will bring the special noise limiter circuit into action and it will reduce considerably the strength of the interfering noise. It is inevitable that this device, to be effective, should slightly affect the quality of reproduction when switched into circuit (by moving the switch towards the centre of the receiver),

ALIGNMENT, INSTRUCTIONS.

The following instructions are based on the assumption that the receiver has suffered no major misalignment,

Although minor adjustments may be carried out without them, it is definitely much more satisfactory, for proper alignment, to use test instruments, the following being essential:—

I. A Signal Generator, fitted with a calibrated attenuator and having internal modulation. The frequency range should cover that of the receiver and the intermediate frequency. Should the output leads not show D.C. continuity, a I megohm resistor should be connected across them. For the sake of brevity the Signal Generator is referred to in the following notes as the Sig. Gen. When aligning the R.F. stages, a dummy aerial, suitable for high frequencies.

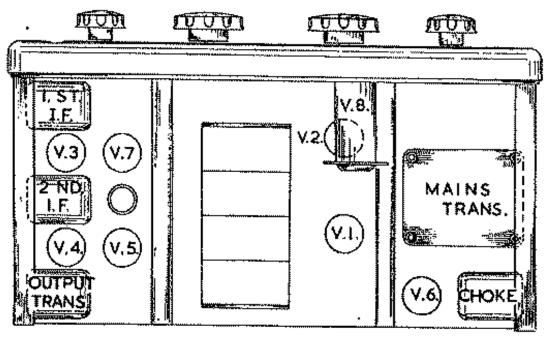


Fig. 4. Plan view in outline.

should be interposed between the direct output of the generator and the aerial terminals of the receiver. Should no dummy aerial be supplied with the generator, a 400 ohm carbon resistor will serve, ficted in series with the high potential lead.

- 2. An audio output meter, calibrated in milliwatts and decibels, to match an impedance of 2-5 ohms.
- A non-metallic trimming tool, with a screwdriver shaped end, for adjusting coil cores, etc. The Eddystone Cat. No. 122T tool is suitable.

The receiver should be removed from its cabinet (by unscrewing the lour screws at the rear) and stood on its lefthand end, face to the operator. Connect the output meter across the speaker terminals, leaving the speaker connected, as this is helpful,

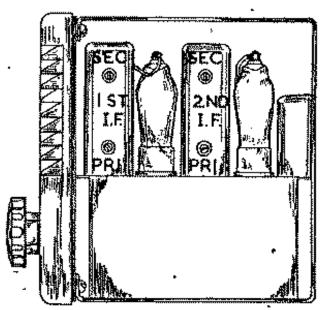


Fig. 5. Location of I.F. Transformer Cores.

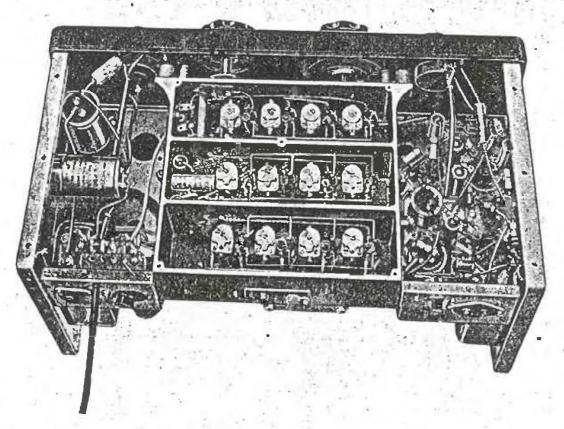


Fig. 6. Underside view of "659" Receiver.

I.F. CIRCUITS.

The intermediate frequency is 450 Kc/s. The I.F. Transformers are well designed and constructed and are unlikely to drift off frequency over long periods.

Before commencing alignment, allow the receiver and the Sig. Gen. to warm up for at least ten minutes, to minimise frequency drift. Set the Tone and Volume Controls fully clockwise, Band Selector Switch at 13 Mc/s. on Band I. and Noise Limiter Switch off.

Remove the grid clip from the top cap of the 6K8 valve (V2) and connect the Sig. Gen. leads between the valve top cap and chassis. The Sig. Gen. should be adjusted to a frequency of 450 Kc/s., 30% modulated, with the attenuator set to give an output in the region of 100 microvolts.

Then proceed to adjust, with the insulated trimming tool, the cores in the I.F. transformers, commencing with the first primary and working through to the second secondary, the positions of which are shown in Fig. 5. The Sig. Gen. output should be reduced as necessary. When maximum output has been secured the attenuator should indicate between 70 and 80 microvolts for a 50 milliwatt output, as shown on the meter with the speaker disconnected. Should the attenuator reading be higher than this, it is possible that the valve emission is beginning to fail.

R.F. AND OSCILLATOR RE-ALIGNMENT.

For the sake of completeness, the instructions which follow give the whole procedure for re-alignment of the radio frequency, frequency changer and oscillator sections. It is emphasised, however, that usually all that will be necessary is slight adjustment of the trimmer condensers and this operation can be carried out without removing the cover of the coil box. In the first place, therefore, only those instructions in the following paragraphs dealing with trimmer adjustment should be attended to. If the alignment is still not wholly satisfactory, the coil cores may be adjusted but considerable care is called for to ensure that proper tracking is maintained.

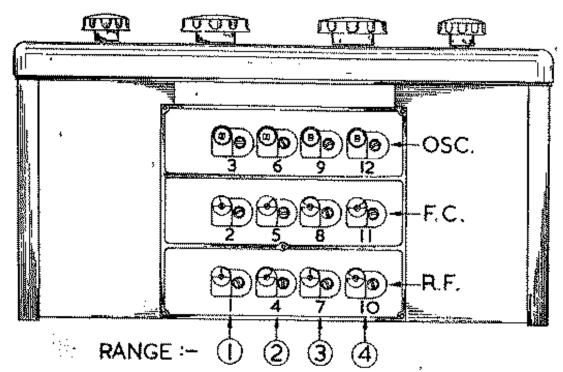


Fig. 7. Location of Trummers, etc. in Coil Box,

OSCILLATOR STAGES.

On each band, the oscillator frequency is 450 Kc/s higher than the signal frequency.

The grid clip should be replaced on the top cap of V2, and the Sig Gen. leads connected, via the dummy aerial, to the aerial and earth terminals. Remove the lid of the coil box, taking care not to drag it across the small trimmer condensers, to aroid damage to the small vanes.

Adjust the tuning to 13 Mc/s on Band I, and set the Sig. Gen. to give an output of 50 microvolts (or less) on the same frequency.

It is desirable to point out here that very few Signal Generators are calibrated to an accuracy of better than 1%, which means in practice that, at a setting of 13 Mc/s, the frequency may be plus or minus 130 Kc/s in error. If only a small discrepancy is found between the Sig. Gen calibration and the receiver calibration, it will be well not to readjust the oscillator frequency. To ensure absolutely correct calibration, it is necessary to use a Crystal Calibrator, incorporating a close tolerance 1000 Kc/s Crystal, for the final setting of the oscillator circuit. Such an instrument is manufactured by Eddystone (Cat. No. 690) and will be found indispensable where accurate calibration of any type of receiver is called for.

If found necessary, therefore, proceed to adjust Core No. 3 (the locations of the cores, etc. inside the coil box are given in Fig. 7), until the signal is audible and maximum output is indicated. Next, change to Band 2, adjust Sig. Gen. and tuning pointer to a frequency of 6 Mc/s and trim Core No. 6. Then proceed to adjust Core No. 9 on Band 3 at 1-3 Mc/s, and Core No. 12 on Band 4 with the Sig. Gen. at 600 Kc/s and Receiver dial at 500 metres.

A similar procedure is followed at the higher frequency end of each band, using the frequencies set out in the panel below, but this time adjusting the Trimmer Condensers. On Bands I and 2 (at 28 and 12 Mc/s) it may be possible to find two settings of the trimmers at which the signal is audible—the correct one is with the trimmer capacitance at its lowest, i.e., with the black line on the rotor nearest to the front of the receiver.

	Band	Frequency	Osc	F.C.	FLF,
	I I	13 Meys	3	2	1
CORES	2	6 Hc/s	-6	5	4
CONES	3	H3 Mc/s	9	8	7
	4	600 Kc/s (500 mesres)	12	11	10
	T	28 Hejs	3	2	1
TRIMMERS	2	12 Mays	6	5	- 4
IMPICENS	3	2:6 Mc/s	9	- 8	7
	4	250° metres (1200 Kc/s)	12	11	10

The adjustments of the cores and trimmers affect each other slightly and it is therefore advisable to repeat the foregoing procedure enteror twice.

R.F. AND E.C. STAGES.

The procedure adopted in tramming the radio-frequency and frequency changer input circuits is very similar to that described above for the escillator stage. For example, on Band 4, the receiver is tuned for maximum output on the meter with the Sig. Gen. set at 600 Kc/s, the attenuator being adjusted to provide a reasonable reading. Cores Nos. II (fi.C.) and III (R.F.) are then moved until maximum output is indicated,

At the high frequency and of Band 4 a frequency of 1-2 Mg/s (250 metres) is employed and Trimmers Nos. II and (Badjusted for peak curput. As with the oscillator, the process should be repeated.

Reptacing the fild of the coil box will cause a very slight alteration of frequency at the high frequency end of the bands but it will only be appreciable on Bands I and 2. A further slight re-adjustment of Trimmers 3 and 6 will correct this — the trimmers are accessible through holes in the lift after it has been acrewed in position.

If the receiver is up to standard, the following Signal Generator inputs should result in an output of at least 50 milliwates :---

Band I.	28 Mc/s	60 m	icrovolts.
	14 Mg/s	15	4
Band 2	12 Meys	15	-
	6 Me/s	10	
Band 3	2.5 Mc/s	15	
	I 3 Mc/s	I/EI	
Band 4.	250 metres (1.2 Kc/s)	45	
	500 matres (600 Kc/s)	45	

ALIGNMENT WITHOUT TEST INSTRUMENTS.

The foregoing matrixctions have assumed that a Signal Concretor is available, but it is appreciated that circumstances will sometimes arise in which it is required to align the receiver without any additional apparatus. In such a case it will not be wise to do more than adjust the trimmer condensers through apertures in the cover of the

coil box. The oscillator trimmers should not be touched unless the culibration obviously incorrect.

If adjustment of the oscillator frequency is found necessary, a station also be timed in, the identity and frequency of which is not in doubt, and preferably tow the high frequency and of the porticular wave range. The appropriate trimmer denser, at set out above, should then be adjusted, as the same time slowly rotating main dial until the pointer coincides with the frequency at which the selected sea is known to be operating.

To ture up the other stages select a broadcasting station which is known to consistent strength and not liable to fading, again preferably at the high frequent of the band. The tuning indicator will be used to give indications of correct admans, and to obtain clear indications. It may be advisable to reduce the strengtioning temperarily a shorter serial than is normally employed. The appropriate trainers then adjusted. This process is followed on each range, as may be found necess the aim being to secure maximum closing up of the shadow in the tuning indicator.

SERVICING.

When a multi-range mater is available the accompanying chart of voltage vaused in conjunction with the circuit diagram, will prove an involumble aid to the qlocation of any facit which may arise. When a meter is not to hand, the task of local a fault may not be easy, but certain symptoms, outlined below, will be of autiquall the receiver stops working, it is almost certain that replacement of a componenvalve will be necessary and the user who is in an isolated area will be well advise keep some spans parts ready for use if required.

Under working conditions, a red glow can be seen from all the valve beging with the exception of the EB34. Complete lack of H.T. voltage will be evidence the failure of the tuning inductor (EM34) to give its normal green glow and by compabilities of sound from the loud speaker, although the latter may result from a defect output valve to output transformer.

If the valves appear to be sound and the H.T. voltage normal, as far at can be at samed, term the volume control full on and touch the top gold of V4 (there is no do of shock). A loud how or him should result—If not, the trouble lies in the sect of the receiver associated with V4 and the following stage. If the how does occur, the trouble lies in an earlier stage. Touch the top caps of the other valves wor backwards from V3. In each case as least a click should be heard in the speaker ar on touching one particular top cap, no sound is heard, it is likely that the finit lie the circuit elements between the silent valve and the next good one. The actual may be in the valve, in a resistor or condense, or possibly (but rarely) in one of colls.

Should difficulty be experienced in obtaining valves of identical types, v replacement becomes necessary, the following valves may be used in box. In a case — particularly the 6K7—there may be some fulling off in pentitivity—in oth there will be no noticeable difference.

6K7	for	EF39
OF		
6K7G		
6Q7	for	EBC32
6H6	For	EB34
ALBERTA .	for	IDM344

CHANGING DIAL LIGHTS.

The holders for the tempt which illuminate the dial are spring into place; things a lamp, all that is necessary is to press the holder and pull out. The junt of the ministure bayonet foling type, rated at 6.3 volts I wait.

"659/B" BATTERY RECEIVER

The battery version of the ""659". Receiver is Identical with the exception of the power unit and all the foregoing remarks about operation, alignment, etc., apply equally to both models.

lest long, and the correct polarity should be observed. The battery used with the receiver should be of the heavy duty car type, with a capacity of at least 60 ampere from it should be in good condition (a high internal resistance will seriously impair performance) and kept well charged. The current consumption, including valve historia, is 5.9 amperes.

"The normal life to be expected from the vibrator unit is about 1000 howrs. Signs that the vibrator, which is of the plug-in non-synchronous type, requires replacement, are erratic performance of the receiver and possibly a much increased noise level. Blowing of the fuse may also indicate that the vibrator has reached the end of its useful tite.

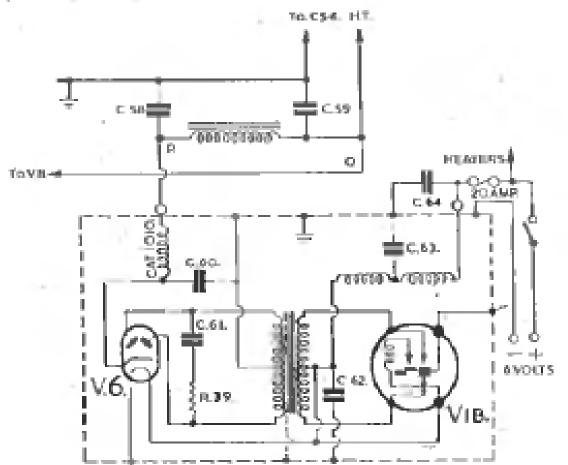


Fig. 8. Carcult of the Buttery Power Unit in the " 659/8 " Receiver.

Fig. 8 gives the circuit diagram of the battery power unit, which fits into the chaptis in the position otherwise occupied by the males power unit. To remove the top part of the unit, containing the transformar vibrator, rectilying valve and sendry filter components, it is only necessary to remove four screws and unsolder the three connections made to the ceramic bushed outlets at the side. The lower part holds the smoothing components, and the whole is easily accessible for servicing purposes. The vibrator unit is held in place with a spring assembly, which must be slipped over to one side before the vibrator can be withdrawn from its socket.

The voltage on each anode of the rectifier valve is 200, the smoothed cutput from the unit being 190 volts, 50 mA.

Several additional Components, not shown on the general component list, are included in the bettery version of the Acceiver, and details of these are given because), in

R39	4700 ohmi ‡ watt.
C58, 53	8 mfd Tubular Electrolytic 350/50) volt, (substitution)
€60	- 005 mfrl Moulded Mica.
Chi	401 or 1012 m/d. Paper, 1000 volt working
C62, 64	5 mfd. Tubelar Paper
CF3	4005 mid. Moulded Mitta.
Vibrates	Unit. type NS/6 (Wearite)

VOLTAGE VALUES (639/8),

Refer to circuit Figs. I and B. The voltages are between the point indicated and the chasis. Set receiver at 44-bitcus-on-Range \$\int_{\ell}\text{y-like}\$ the serial charted out, volume control at maximum and the tone control fully clockwise. Two sets of values are given using different meters as shown. It will be evident that the actual voltage indicated depends on the particular meter employed. A tolerance of plus or minus \$\frac{1}{2}\text{y-should}\$ be allowed on the values given.

4	O ₁ Oddinates	Arro.		Weston			
Circuit Ref.	1,000 alternativada	Model 40	Chronic Ref.	f,000 chargivals	Model 40		
Α.	170	180	L	65	45		
B.	- 65	55	M	1-7	140		
C	1-4	1-3	N	PD	180		
P	100	175	C)	190	190		
E	40	3/5	P	8.8	71-3		
F	2-1	2-0	0	190	193		
G	65	6.01	R.	700	200		
H	16.5	160	5	25	15		
J	65	55	Ī	25	15		
k.	1-4	1.3	Ù	190	193		

VOLTAGE VALUES (659/AC)

Refer to circuit Fig. 1. The voltages are between the point meteated and chassis. Set the receiver at 14 Me/s on Range 1, with the settal shorted out, volume control at maximum, and the tone control fully clockwise. Two sets of values are given using different meters as shown. It will be evident that the actual voltage indicated depends on the particular meter employed. A tojerance of plus as minus 5% should be allowed on the figures given.

ć	iroit Ref	Winten 1,000 obmsjypit	/ma. " Model <0	Circuit Ref	Weston LJW observati	Avo Medel 40
- 33	A	225	215	1	85	60
	- B	50	70	Н	2.7	1.6
1 .	C	20	1.6	N.	245	235
2	D	240	225	0	250	245
	E	100	25	P	12	IR-II
	F	3.5	- 1	O	250	2.45
	G	80	75	R	765	240
	H	225	210	5	47	20
	1	85	70	1	25	15
	· K	2:0	1.9	U	250	245

COMPONENT VALUES.

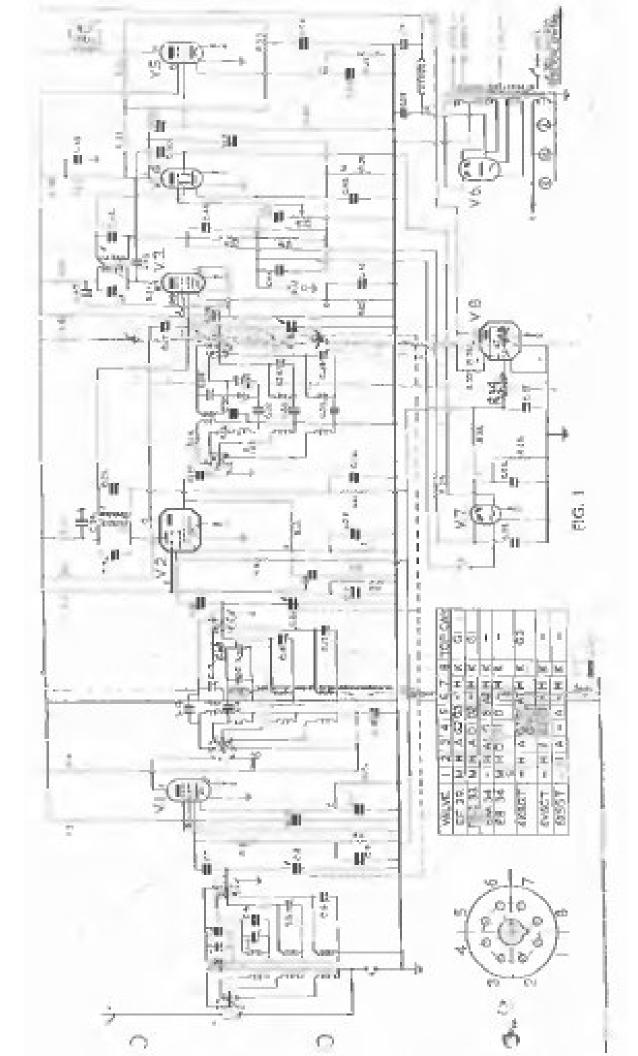
RESISTORS,

(All I was except where otherwise stored)

R12 R13 R14 R15 R16 R17	-47 or -5 magohms, -47 or -5 magohms, -1 magohm, 4 700 or 5 600 ohms, 330 or 300 ohms, 15,000 ohms, I watt. 27,000 or 30,000 ohms, -47 or -5 magohms, -47 or -5 magohms, 47 00 or 50,000 ohms, 47 or 50 ohms, 47 or -5 magohms, 12 ohms, 47 or -5 magohms, 17 or -5 magohms, 180 or 300 ohms, 190 or 300 ohms, 190 or 300 ohms,	l water.	R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R31	22,000 or 20,000 chmt, I megohm. 5 megohm. Pot. 3136P. 27,000 or 30,000 chms. 27 or 25 megohm. 27 or 25 megohm. 3,300 or 3,000 chms. 47 or 5 megohms. 1 megohm. 270 or 250 chms. I wast. 50,000 chm. Pot. 3137P. With switch -17 or 5 megohms. 47 or 5 megohms.

CONDENSERS.

		CONE	ALF VOICE L.			4664
C C C C C C C C C C C C C C C C C C C	100 pt. 01 mtd.	Air Trimmer. Ceranic. Air Trimmer. Ceranic. Air Trimmer. Air Trimmer. Silvered Pica R. F. Sect. 3 Gang. Tub Paper. Tub Paper. Tub Paper. Ceranic. Air Trimmer. Air Trimmer. Air Trimmer. Air Trimmer. Tub. Paper. Tub. Paper. Silvered Mica. Mixer Sect. 3 Gang. Tub. Paper. Silvered Mica. Mixer Sect. 3 Gang. Tub. Paper. Silvered Mica. Tub. Paper.	C40 C41 C42 C44 C45 C46 C47 C48 C46 C50 C51 C52 C53 C53 C54 C57 C58 C57 C58	Spf.	Silvered Mica. Ceramic Trimmer, Silvered Mica. Ceramic Trimmer, Silvered Mica. Ceramic Trimmer, Silvered Mica. Ceramic Trimmer, Silvered Mica. Coe. Sect. 3 Gang. Tub. Paper, Tub. Paper, Silvered Mica. Ceramic, Tub. Paper, Ceramic, Tub. Paper, Ceramic, Tub. Paper, Ceramic, Tub. Paper, Ceramic, Tub. Figur. Tub. Elect. Ceramic. Modded Mica. Modded Mica. Modded Mica. Tub. Paper, Tub. Faper, Tub. Faper, Tub. Faper, Tub. Faper, Tub. Elect.	(P)
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