



REGENTONE Service

BULLETIN NO. 108

Model A.133

ALIGNMENT PROCEDURE

If alignment is necessary, the following sequence of operations should be followed carefully. A tuneable signal generator should be used and its output must always be limited, so that the Receiver output is just audible. The signal should be fed to the Receiver via a dummy aerial. For I.F. use a 0.1 mfd. Condenser, for S.W. a 400-ohms resistor and a 400 pF Condenser in series, and for M.W. and L.W. circuits a standard dummy aerial. This may consist of a 200 pF Condenser, 25 ohms resistor, and a 25 micro-henrys inductance in series.

INTERMEDIATE FREQUENCY. Switch receiver to M.W., turn volume control fully clockwise and gang fully open. Apply signal generator output via a 0.1 mfd. condenser to fixed vanes of R.F. section of gang condenser V.C.4 and chassis, and inject a signal of 470 Kc/s. Adjust the dust cores of the I.F. transformers L10, L11, L12, L13, using a non-inductive screwdriver, for maximum output, as shown by an output meter. Each core will peak in two positions. The correct positions are those at which both cores are furthest from the base pins.

RADIO FREQUENCY :

Notes.

1. Signal Generator to be connected via dummy aerial to aerial and earth sockets of Receiver.
2. Switch Receiver to required band and adjust signal generator to desired frequency.
3. Load the output transformer secondary with 3.0 ohms.
4. Set Volume Control to maximum.
5. With gang fully closed, set pointer to 100 degree position on scale.

Long Wave

1. Set pointer to 300 Kc/s position on scale. Adjust oscillator trimmer V.C.8, and then aerial trimmer V.C.3 for maximum output.
2. Check calibration at 160 Kc/s.

Medium Wave

1. Set pointer to 1500 Kc/s position on scale. Adjust oscillator trimmer V.C.7, and then aerial trimmer V.C.2 for maximum output.
2. Check calibration at 575 Kc/s.

Short Wave

1. Set pointer to 15 Mc/s position on scale. Adjust oscillator trimmer V.C.6, and then aerial trimmer V.C.1 for maximum output. There is a slight tendency to "pulling" on short waves. When adjusting the aerial trimmer at 15 Mc/s "rock" the tuning condenser.
2. Check calibration at 7.5 Mc/s.

Final. Re-seal all trimmers with suitable compound.

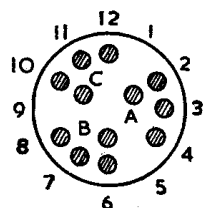
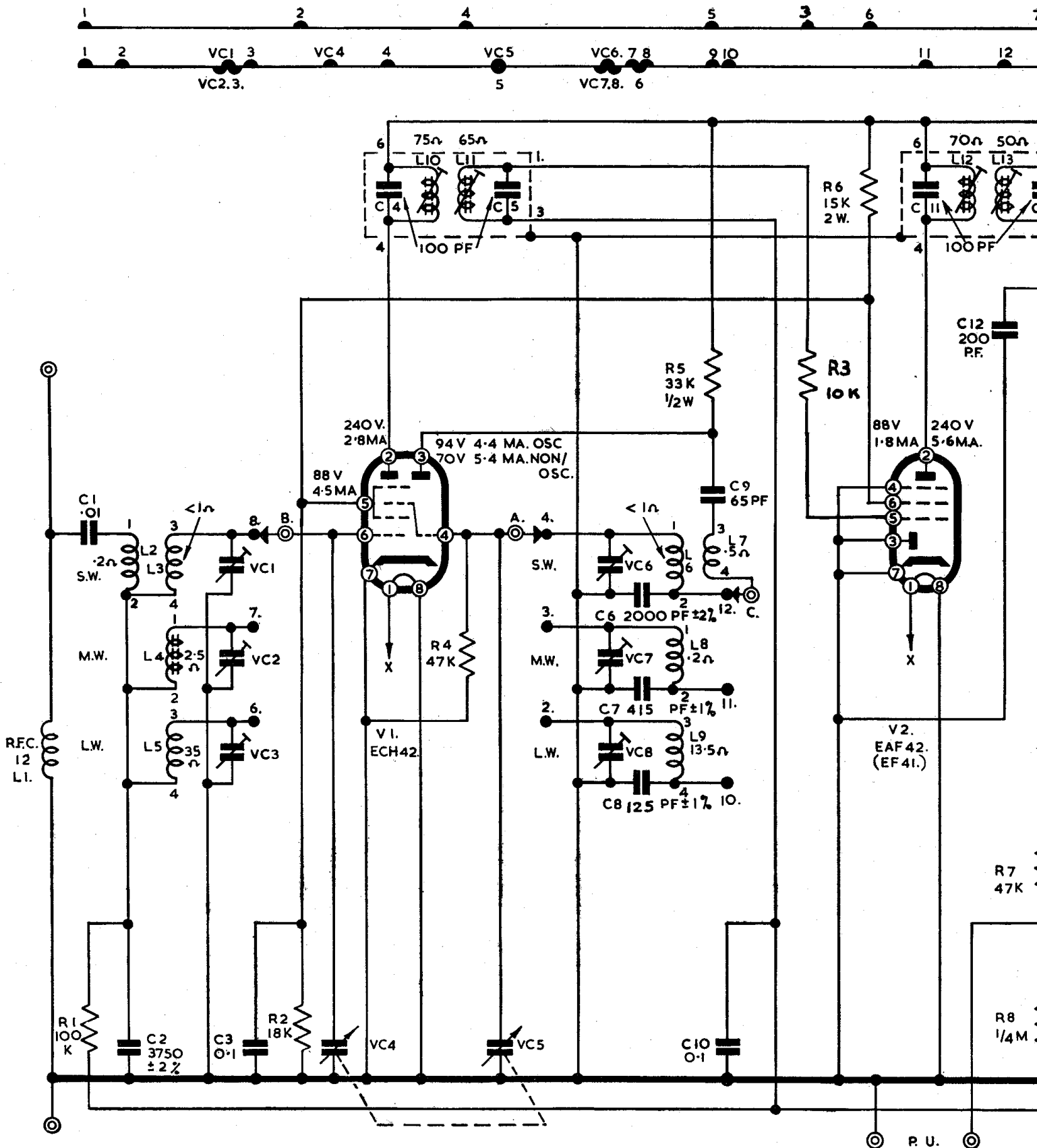


PARTS LIST (contd.)

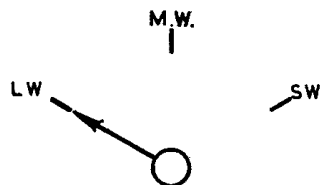
PARTS LIST

R.148562	Bracket Lampholder
R.142504	Clip Knob Retaining
R.142502	,, Pulley Idler retaining
R.142533	,, Scale Glass
RA.415020	Coil 1st I.F.T.
RA.415021	,, 2nd I.F.T.
RA.430080	,, Aerial Choke
RA.430059	,, L.W. M.W.
RA.430319	,, S.W.
RA.430061	,, Osc. L.W. M.W.

RA.430062	,, S.W.
R.127520	Condenser Gang
R.128516	,, Trimmer Bank
R.131607	,, 32-32 mf. 350V.
R.129507	,, 3750 pf. ± 2%
R.129508	,, 2000 pf. ± 2%
R.129695	,, 65 pf. ± 10%
R.129671	,, 415 pf. ± 1%
R.129685	,, 200 pf. ± 10%
R.129582	,, 125 pf. ± 1%
R.301502	Core Iron Dust (MW.L W.AE.)
R.125518	Drive
R.125557	Drum Drive 4½"
R.164517	Grommet Chassis Support
R.157522	Holder Pilot Lamp
R.121511	,, Valve B8A
R.175551	Knob Wavechange
R.169513	,, Tone
R.169512	,, Tuning, Volume Control
R.138515	Panel A.E.
R.138516	,, P.U.
R.138517	,, L.S.
R.138527	,, Chassis Hole Blocking
R.142506	Clip Electrolytic Condenser Mtg.
R.158574	Potentiometer ½ Meg. V.C. S.P.S.T.
RA.407020	Pointer and Carriage
R.125566	Pulley Idler
R.132552	Resistor 1K 4Wt.
R01.15310	,, 15K 2 wt.
R.126638	Scale Glass
M.86002	Sleeve Rubber (Scale clips)
R.190550	Speaker 6½" P.M.
R.122503	Spring Cord Tension
R.142501	Strap Coil Mtg.
R.153575	Switch Tone
R.153574	Switch Wavechange
R.159625	Transformer Mains
R.159624	,, Output
R.165505	Washers Felt Small
R.165504	,, Large

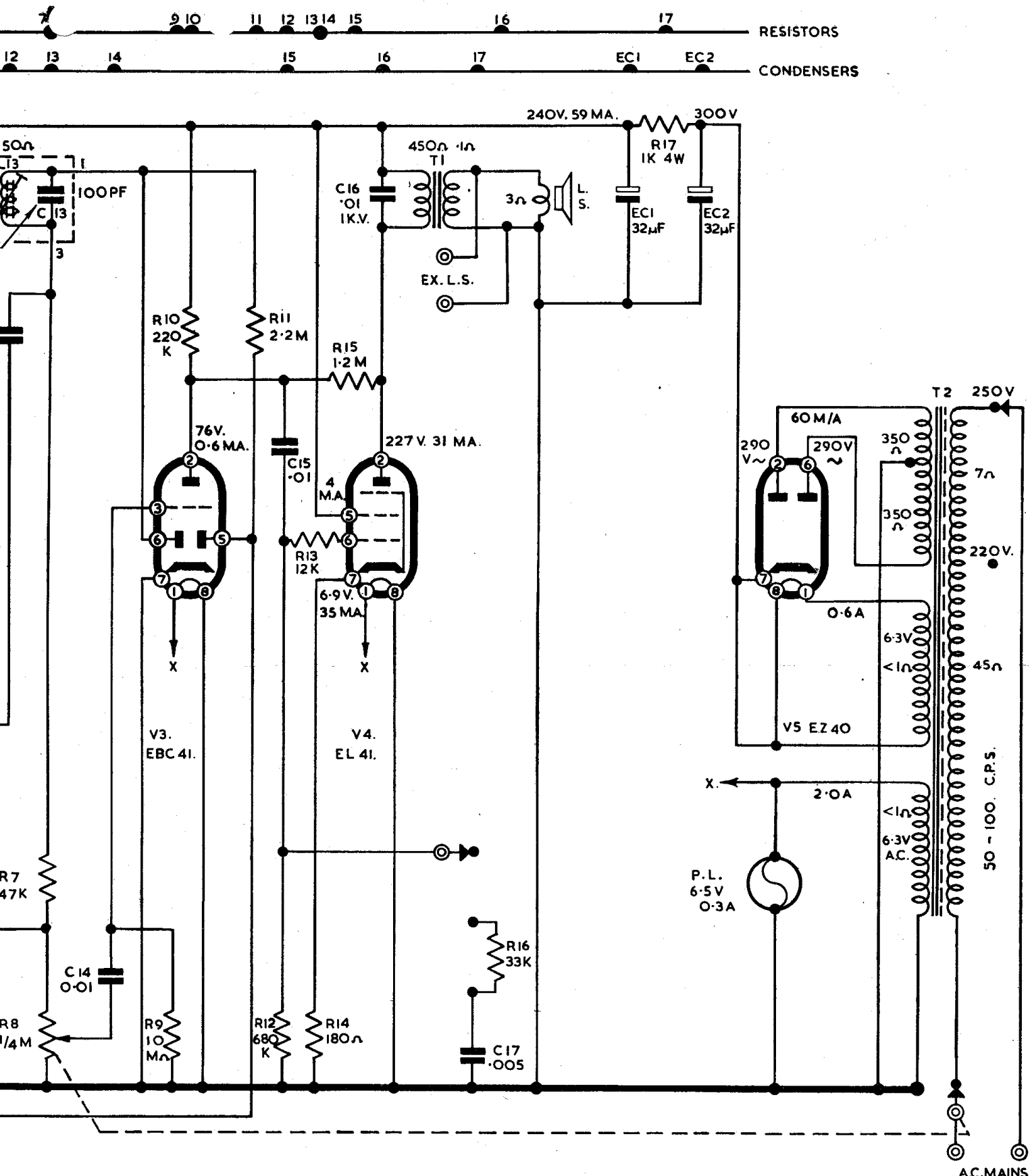


SWITCH WAFER AS VIEWED ON UNDER-SIDE OF CHASSIS FROM KNOB.



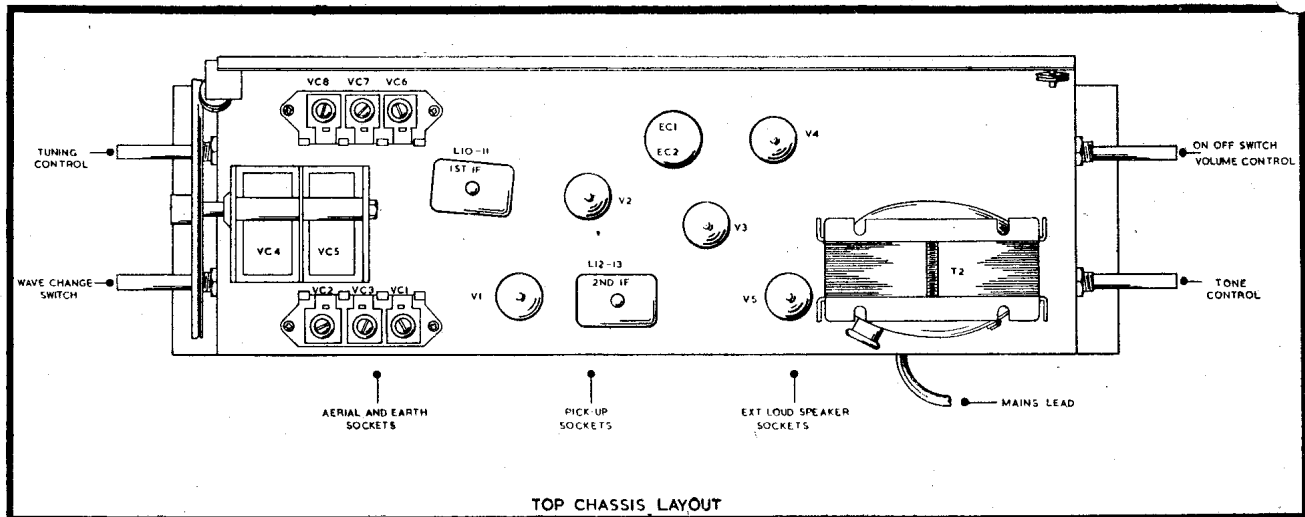
SWITCH POSITION

NOTE:- EF41. (NO DIODE O MAY SUBSTITUTE E

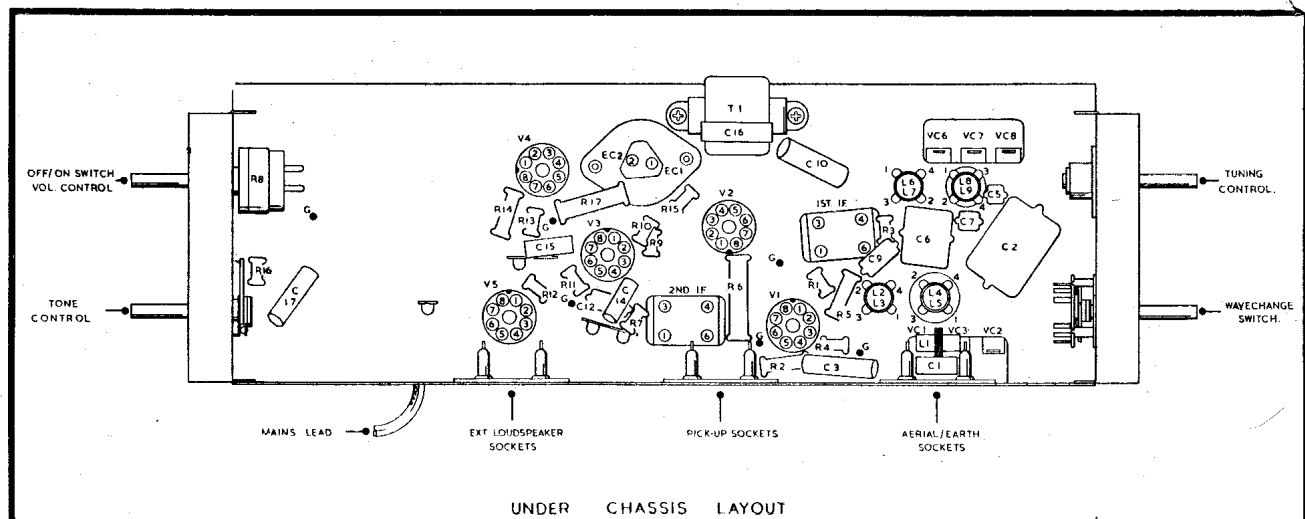


MODE ON PIN 3)
UTE EAF 42.

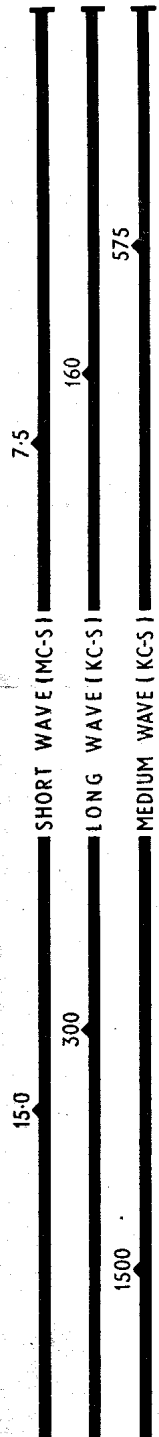
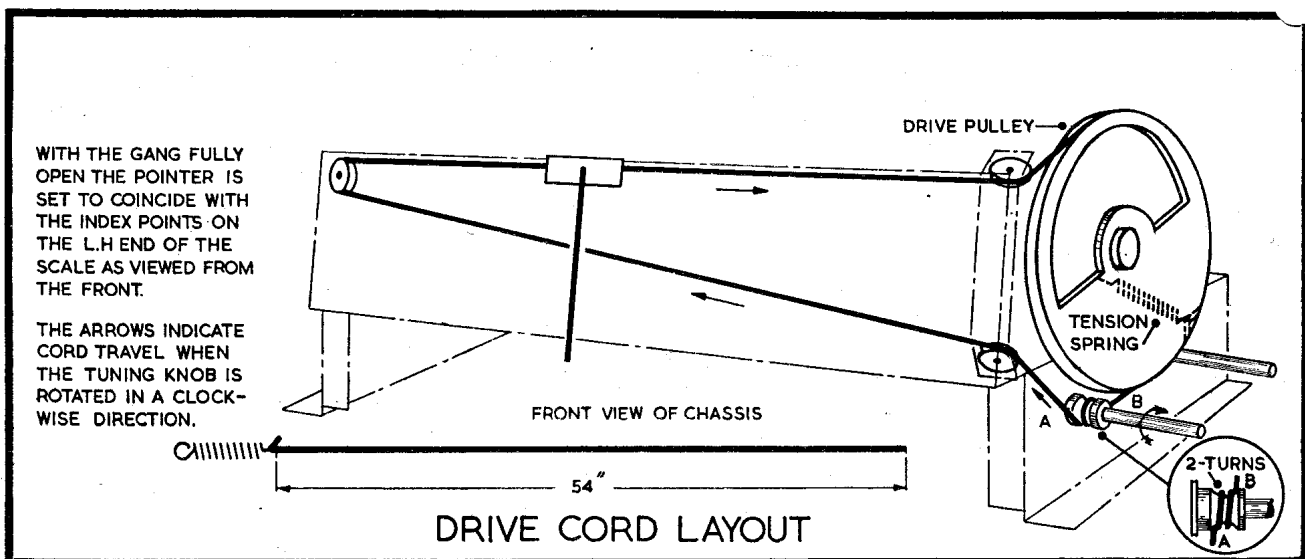
NOTE:- MEASUREMENTS TAKEN ON MAINS OF 230V
USING 250V TAP. MAINS CURRENT 0.16 AMP
A.C.. METER USED AVO 7.
TRIMMERS :- 4-40PF
< 1Ω = LESS THAN 1 OHM.



TOP CHASSIS LAYOUT



UNDER CHASSIS LAYOUT



NOTE.—The information contained in this bulletin is in accordance with initial production Receivers. Owing to the uncertainty of supplies, substitute components may have to be used, and the values of these may vary from the published information. Wherever possible, such substitutions will be controlled within permissible tolerances and will have no adverse effect on the performance of the Receiver.