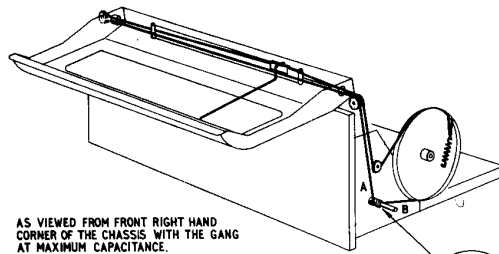




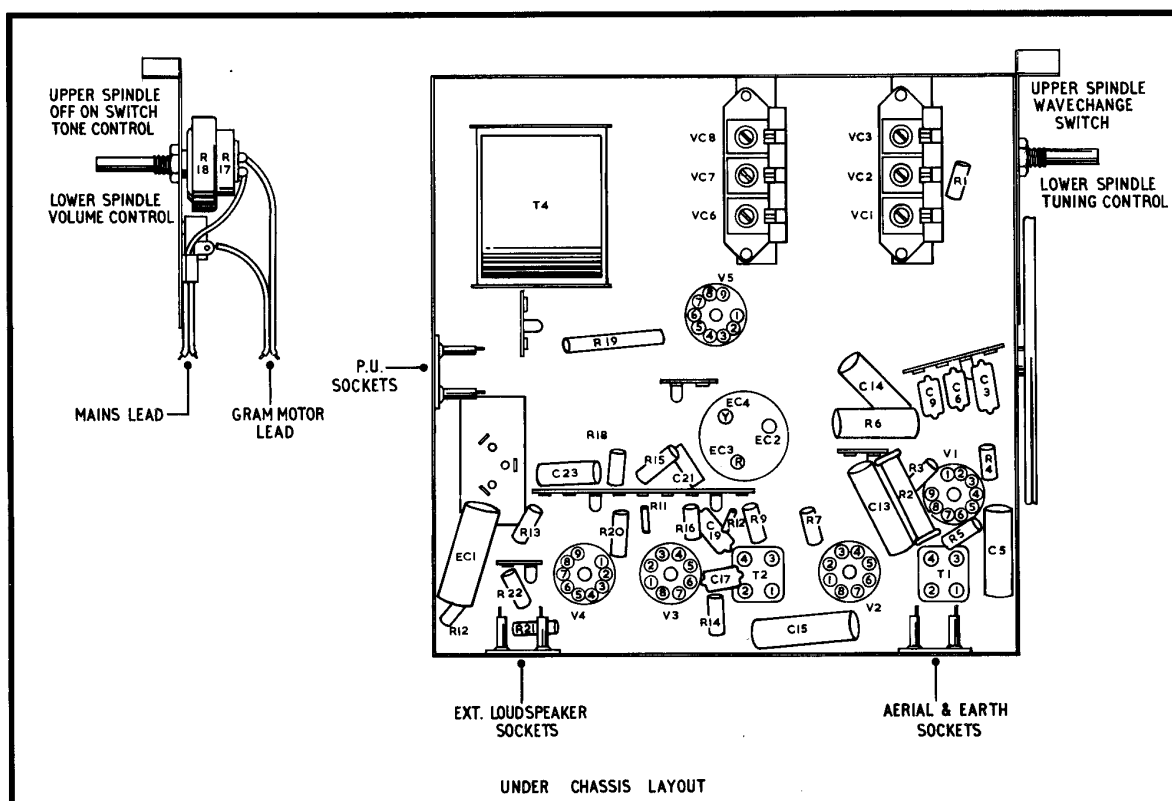
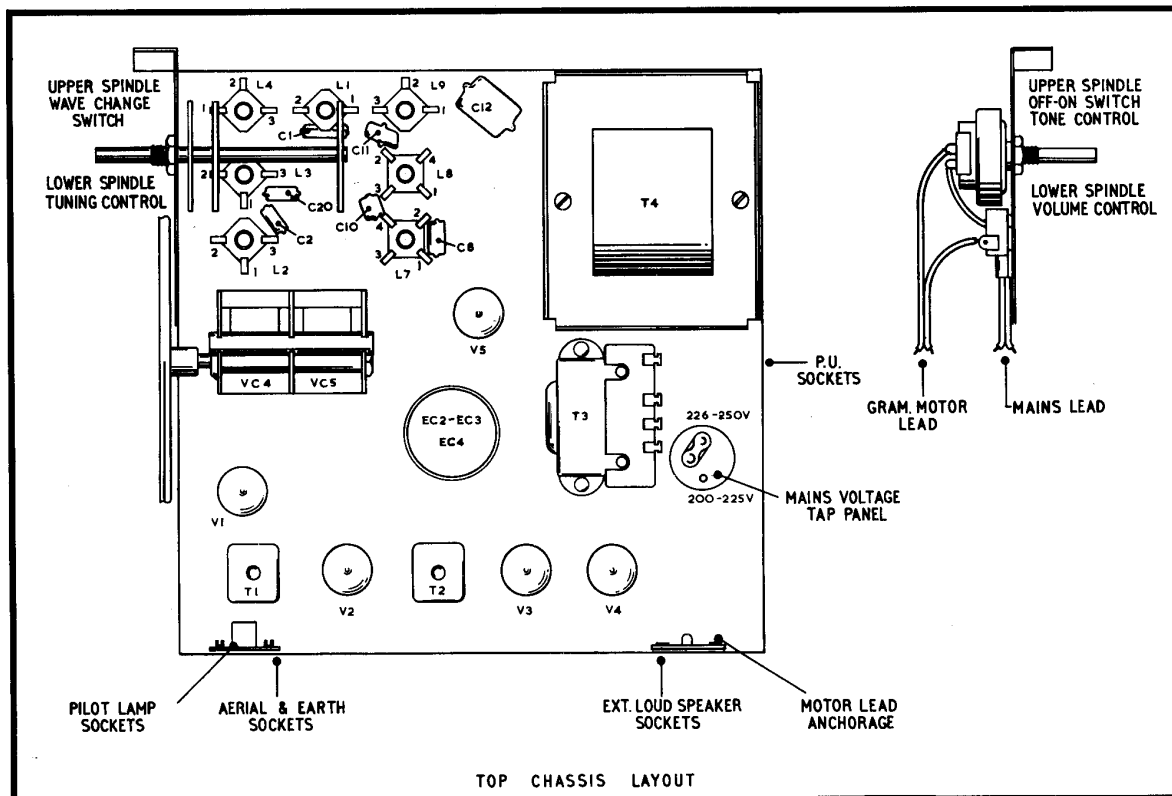
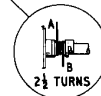
REGENTONE Service

BULLETIN No. 117
MULTI 99/2
TABLE & CONSOLE MODELS



AS VIEWED FROM FRONT RIGHT HAND
CORNER OF THE CHASSIS WITH THE GANG
AT MAXIMUM CAPACITANCE.

LENGTH OF DRIVE CORD 71"



WAVEBANDS:- L.W. 1000-2000 Metres.
M.W. 200-550 Metres.
S.W. 6 Mc/s - 18 Mc/s.

POWER SUPPLY:- 200/250 V. A.C.

RECORD CHANGER:- B.S.R. "MONARCH"
UA5.

OUTPUT POWER:- $2\frac{1}{2}$ WATTS. 10 Dbs.

Negative Feedback.

FITTED TERMINALS:- Ext. L.S. (low
Impedance) Aerial
and Earth.

NOTE:- An Internal Plate Aerial is
fitted to this Model.

ALIGNMENT INSTRUCTIONS

INTERMEDIATE FREQUENCY (470 Kc/s).

1. Apply signal generator output direct via 0.1 mfd. Condenser to fixed vanes of R.F. section of gang condenser and chassis.
2. Switch receiver to M.W. with gang fully opened.
3. Adjust dust cores of I.F. transformers for maximum output in normal manner.

INTERMEDIATE FREQUENCY TRAP.

1. Apply signal generator output (470 Kc/s) via dummy aerial to aerial and earth sockets of receiver.
2. Switch receiver to M.W. with gang condenser fully open, adjust dust core of I.F. trap for minimum output.

RADIO FREQUENCY ALIGNMENT.

NOTE: Connect Signal Generator via dummy aerial to aerial and earth sockets of receiver. Switch receiver to required band and adjust signal generator to desired frequency. Load output transformer secondary with 3.0 ohms. Set volume control to maximum. With gang fully closed, set pointer to 100 degree position on scale.

LONG WAVE

1. Set pointer to 160 Kc/s calibration mark. Adjust oscillator and then dust cores for maximum output.
2. Set pointer to 300 Kc/s calibration mark. Adjust oscillator and then aerial trimmers for maximum output.
3. Repeat (1), (2), (1).
4. Check calibration at specified frequencies.

MEDIUM WAVE.

1. Set pointer to 575 Kc/s calibration mark.
Adjust oscillator and then aerial dust cores for maximum output.
2. Set pointer to 1500 Kc/s calibration mark. Adjust oscillator and then aerial trimmers for maximum output.
3. Repeat (1), (2), (1).
4. Check calibration at specified frequencies.

SHORT WAVE

1. Set pointer to 7.5 Mc/s calibration mark. Adjust oscillator and then aerial dust cores for maximum output.

2. Set pointer to 15.0 Mc/s calibration mark. Adjust oscillator and then aerial trimmers for maximum output.

3. Repeat (1), (2), (1).

4. Check calibration.

GENERAL NOTES

1. Oscillator Frequency. The oscillator is at a higher frequency on all bands.
2. Sealing. All trimmers to be sealed in normal manner.
3. Pulling. There may be a slight tendency to "pulling" on short waves. When adjusting aerial trimmer at 15.0 Mc/s "rock" the tuning condenser.
4. Calibration check Frequencies.
L.W. 160 Kc/s; 200 Kc/s; 300 Kc/s.
M.W. 575 Kc/s; 1025 Kc/s; 1500 Kc/s.
S.W. 7.5 Mc/s; 10.0 Mc/s; 15.0 Mc/s.
5. Calibration Error.
L.W. Alignment frequencies - Thickness of pointer. Check point - $5/32''$
M.W. Alignment frequencies - Thickness of pointer. Check point - $3/32''$
S.W. Alignment frequencies - $1/16''$.
check point - $1/8''$.

Iron Dust Cores.

With one exception, the dust cores of all oscillator and aerial coils are to be adjusted to the second tuneable signal when the dust cores are screwed into the coil from the top of the former.

The exception is the S.W. oscillator coil. On this band, the iron dust core is to be adjusted to the first tuneable signal when the dust core is screwed into the coil from the top of the former.

INSTRUCTIONS FOR REMOVING CHASSIS.

Note.- It is not necessary to remove the escutcheon from the baffle when withdrawing the chassis.

1. Remove 4 control knobs by exerting a pull on each in turn.
2. Unplug dial lamp leads from sockets on left of chassis.
3. Disconnect mains lead to motor at plug and socket joint cleated to base of cabinet.
4. Unplug P.U. leads from right hand end of chassis.
5. Remove 2 screws securing motor baseboard to brackets on sides of cabinet, and slide out the motor baseboard complete with motor.
6. Remove one chassis screw which passes upwards through the cabinet base.
7. Remove 3 countersunk head wood screws securing the speaker baffle to the front of the cabinet, one in the top centre and one each immediately below the escutcheon pivot brackets.
8. Open the dial escutcheon, and draw back the complete assembly, until the escutcheon is clear of its cut-out. Skew the chassis round so that the left hand spindles will emerge first and withdraw the complete assembly.

REPLACEMENT PARTS

R.148616	Bkt. P/L. Mtg.	
R.142504	Clip Knob	
R.142502	Clip Pulley Ret.	
R.142576	Clip Scale	
R.142507	Clip Condenser	
RA.430389	Coil L.W. Ae.	
RA.430390	Coil M.W. Ae.	
RA.430391	Coil S.W. Ae.	
RA.430399	Coil L.W. Osc.	
RA.430400	Coil M.W. Osc.	
RA.430401	Coil S.W. Osc.	
RA.430388	Coil I.F. Trap.	
R.127521	Condenser Gang	
R.128516	" 3 x 4-40 pF.	
R.301508	Core Dust	
R.125567	Drive Spindle	
R.125557	Drum 4½"	
R.126639	Glass Scale	
R.164511	Grommet.	
R.175595	Knob W/C. Brown.	
R.175578	Knob W/C. Cream.	
R.169511	Knob Plain Brown	
R.169513	Knob Plain Cream	
R.148612	Pivot Bracket L.H.	
R.148613	Pivot Bracket R.H.	
R.138501	Plug Volt. Sel.	
RA.407022	Pointer & Carriage	
R.125566	Pulley Idler.	
R.190540	Speaker 6½"	
R.190551	Speaker 8"	
R.122503	Spring Cord Tension	
R.122509	Spring Return	
R.159626	Transformer Mains	
R.159614	Trans. O.P. 7000Ω to 3Ω	
RA.415031	Transformer I.F. 1 & 2	
<u>POTENTIOMETERS.</u>		
R.158617	1M VOL.	R.8
R.158618	¼M.S.P.S.T. TONE	R.17

RESISTORS

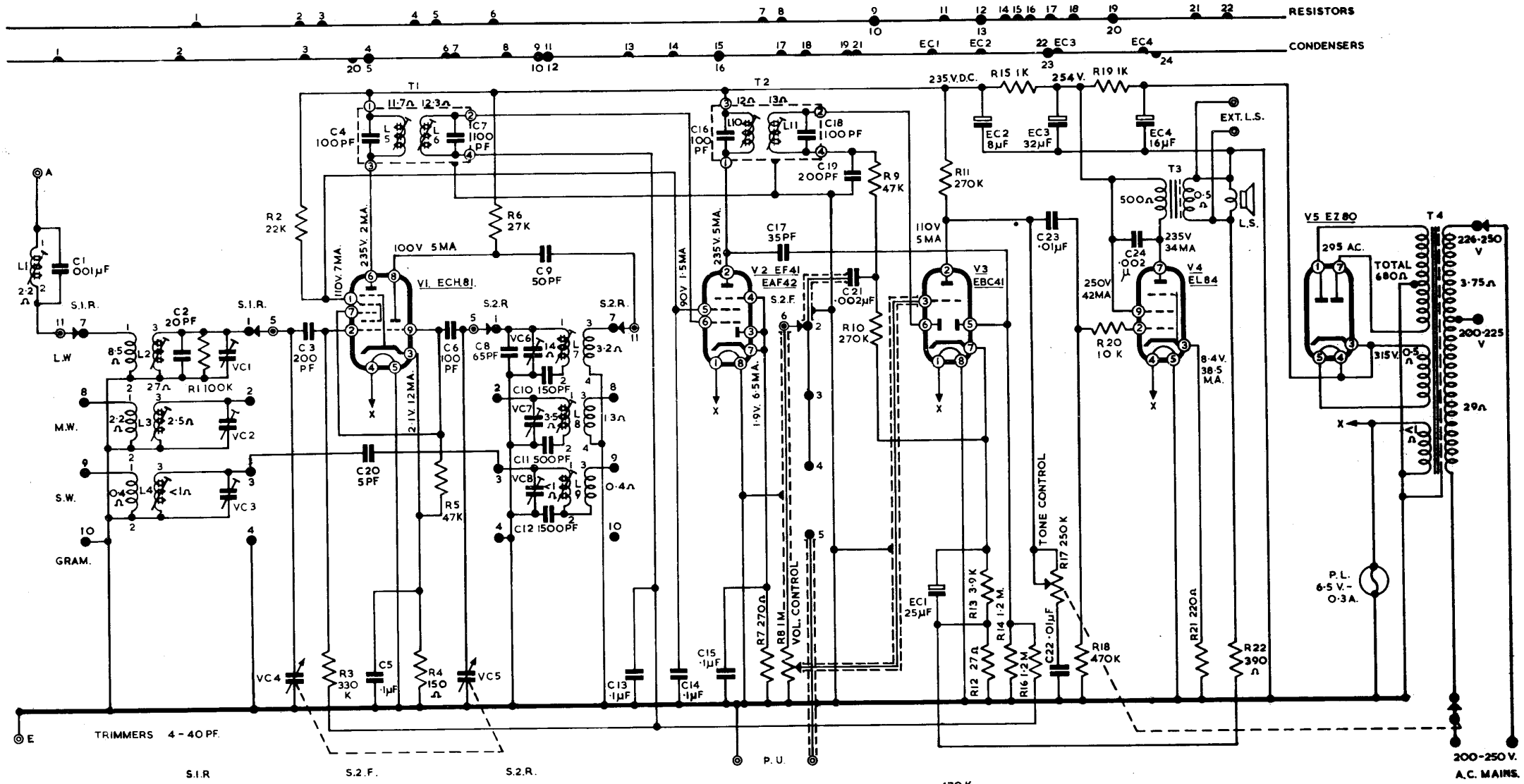
<u>Part No.</u>	<u>Value</u>	<u>Wattage</u>	<u>Ref.</u>
R.132552	1K	4	R.19
R01.22310	22K	1	R.2
R10.27310	27K	1	R.6
R08.10210	1K	½	R.15
R08.10320	10K	½	R.20
R09.27010	27Ω	¼	R.12
R09.39210	3.9K	¼	R.13
R09.12520	1.2M	¼	R.16,14
R09.47420	470K	¼	R.18.
R09.27420	270K	¼	R.10
R09.33420	330K	¼	R.3
R09.27420	270K	¼	R.11
R09.47320	47K	¼	R.9
R09.47310	47K	¼	R.5
R09.10420	100K	¼	R.1
R09.39110	390Ω	¼	R.22
R09.22110	220Ω	¼	R.21
R09.27110	270Ω	¼	R.7.
R09.15110	150Ω	¼	R.4.

CONDENSERS.

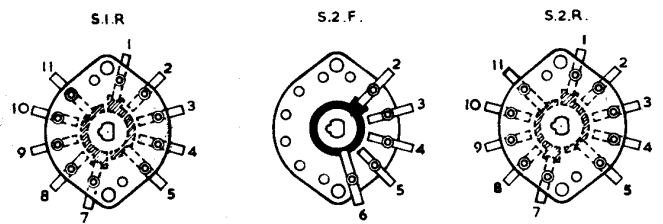
<u>Part No.</u>	<u>Value</u>	<u>Ref.</u>
R.129573	200 pF	C.19
R.129685	200 pF	C.3
R.129535	100 pF	C.6
R.129527	50 pF	C.9
R.129516	35 pF	C.17
R.129702	0.1 μF 350V.	C.14,15,13,5
R.129708	0.002μF 1000V.	C.24
R.129701	0.01 μF 500V.	C.22,23
R.129815	0.001μF Moulded M.	C.1
R.130522	20 pF	C.2
R.130520	150 pF	C.10
R.130521	65 pF	C.8
R.130519	500 pF	C.11
R.129538	1500 pF	C.12
R.131609	25 μF 25V.	E.C.1
R.131608	16x32x8 μF 350V. ELEC.	E.C.2 3, 4
R.129660	5 pF	C.20
R.129746	.002μF 500V.	C.21

MODIFICATIONS

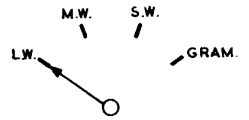
AND ERRATA



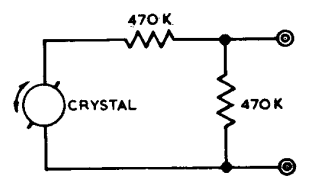
RESISTORS
CONDENSERS



SWITCH WAFERS AS VIEWED FROM KNOB



SWITCH POSITION



PICK-UP SHUNT FOR B.S.R. MONARCH UA6.

R.174238