

REGENTONE

RADIO & TELEVISION LTD.,

- ROMFORD -

RADIOGRAMPHONE

MODEL A R G 7 0

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

POWER SUPPLY :— 200-250V. A.C. 50 cps.
Record Changer — B.S.R. UA8.

Output Power— $2\frac{1}{2}$ Watts. 10 Dbs. Negative
Feedback.

Fitted Terminals—Ext. L.S. (low impedance)
Aerial and Earth.

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 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.
2. 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— $\frac{5}{2}$ "

M.W. Alignment frequencies—Thickness of pointer. Check point— $\frac{3}{2}$ "

S.W. Alignment frequencies— $\frac{1}{8}$ " Check point— $\frac{1}{8}$ "

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.

CAPACITORS

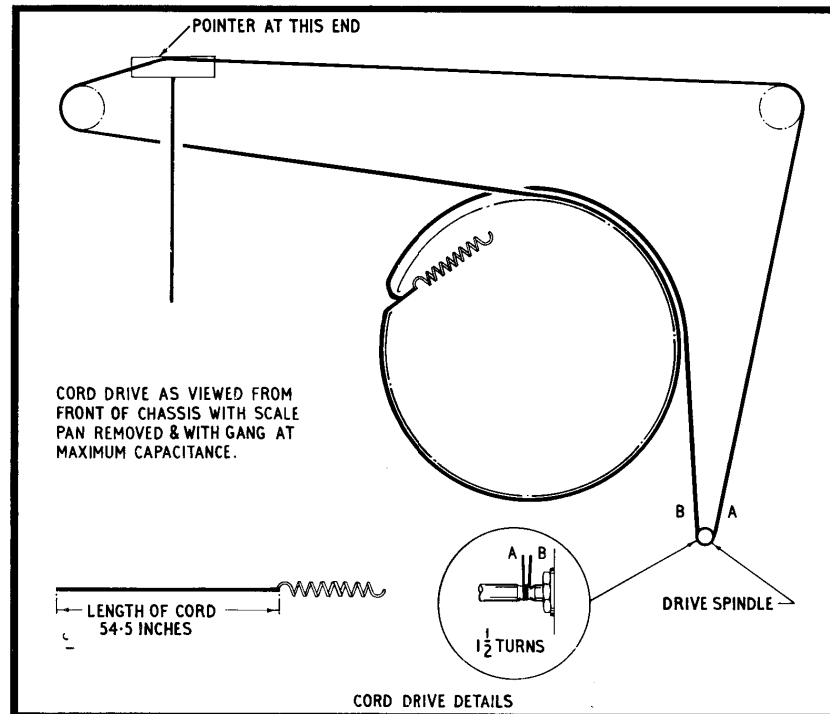
Part No.	Value	% Tol.	W.V.	Ref.
R.131608	16.32.8 uF	El.	350	E.C.4 3,2
R.131609	25 uF	El.	25	E.C.1,5
R.129740	0.1 uF		350	C.5,13 14,15
R.129701	0.01 uF		500	C.22,23
R.129746	0.002 uF		500	C.21.
R.129708	0.002 uF		1000	C.24.
R.129815	0.001 uF	10		C.1
R.129538	1500 pF	2		C.12
R.130519	500 pF	1		C.11
R.129685	200 pF	10		C.19,20
R.129573	200 pF	20		C.3
R.130520	150 pF	1		C.10
R.129535	100 pF	10		C.6
R.130521	65 pF	5		C.8.
R.129527	50 pF	10		C.9,17
R.130522	20 pF	20		C.2

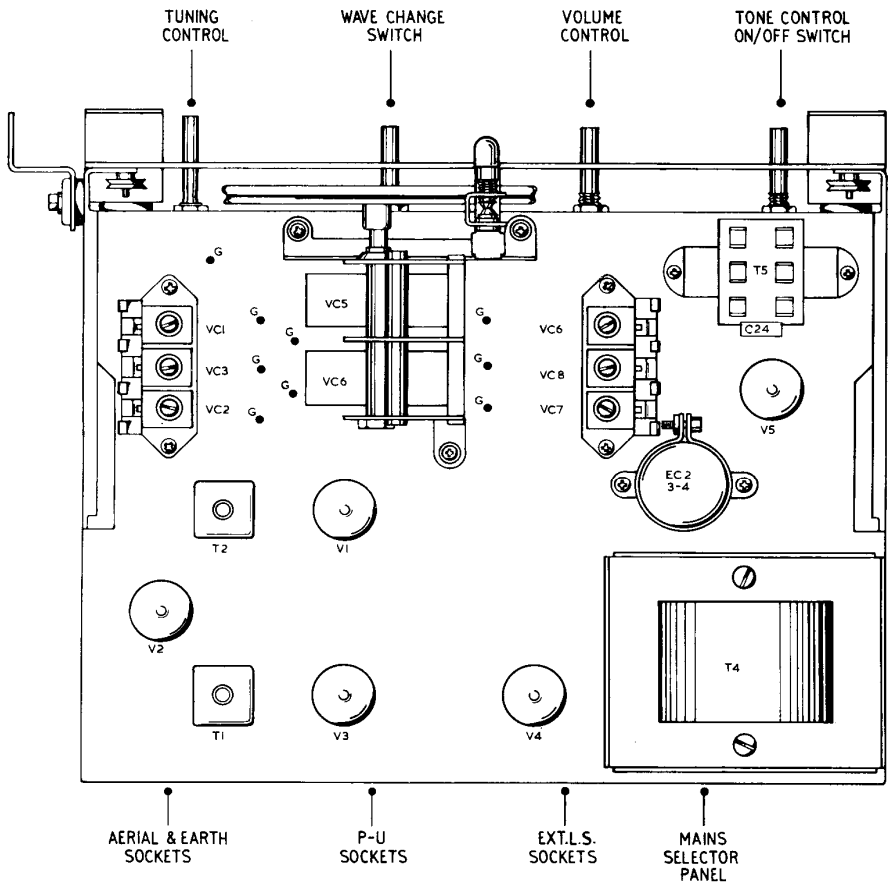
RESISTORS

Part No.	Value	% Tol.	Watt.	Ref.
R.132522	1K	10	4	R.19
R10.27310	27K	10	1	R.6
R10.22310	22K	10	1	R.2
R08.10210	1K	10	1/2	R.15
R08.22110	220	10	1/2	R.21
R09.12520	1.2M	20	1/4	R.14
R09.47420	470K	20	1/4	R.16,18
R09.33420	330K	20	1/4	R.3
R09.27420	270K	20	1/4	R.10,11
R09.10420	100K	20	1/4	R.1
R09.47320	47K	20	1/4	R.5
R09.47310	47K	10	1/4	R.9
R09.10320	10K	20	1/4	R.20
R09.39210	3.9K	10	1/4	R.13
R09.27110	270	10	1/4	R.7,22
R09.15110	150	10	1/4	R.4
R09.27010	27	10	1/4	R.12

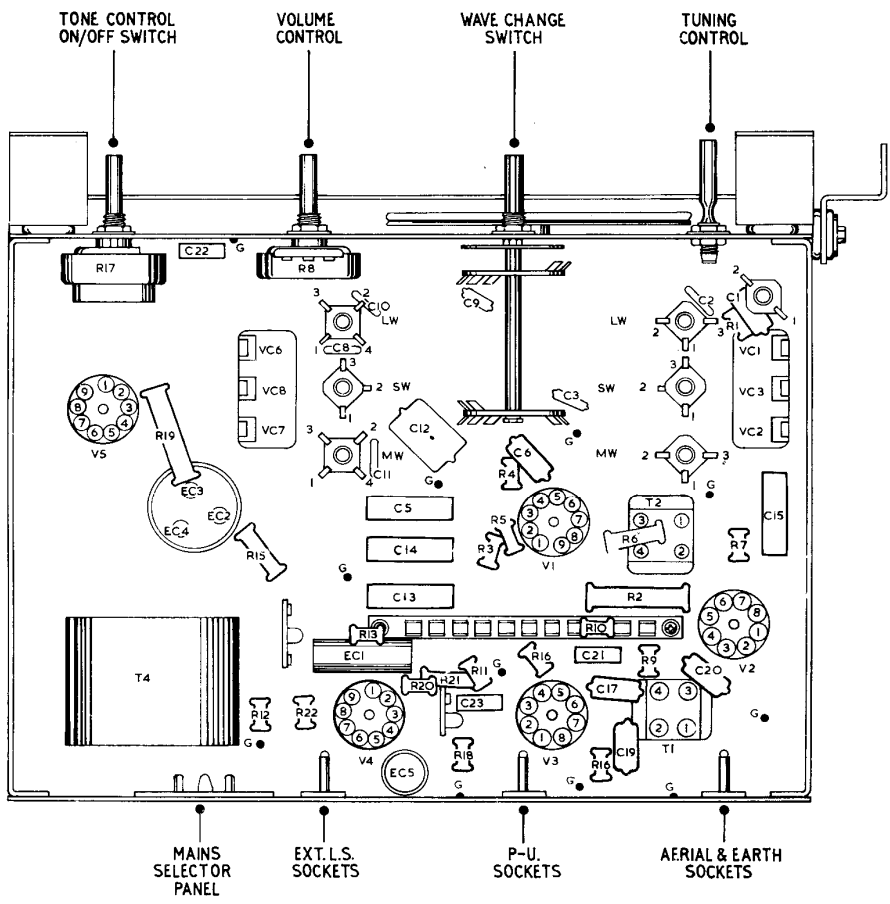
REPLACEMENT PARTS.

Part No.	Description	Part No.	Description
R.148568	Bkt. Gang Mtg. Front	R.121525	Holder Valve B9A
R.148661	Bkt. Gang Mtg. Rear	R.169510	Knob Tone On/Off. Tuning
197/0007	Clip Knob Ret.	R.169511	Knob Volume
R.142591	Clip. Coil Mtg.	519/0005/3	Knob Wavechange
199/0005	Clip. Idler Pulley Ret.	808/0002	Lid Stay
RA.430389	Coil L.W. Ae.	R.128634	Panel Socket A.E.
RA.430304	Coil M.W. Ae.	R.138586	Panel A.E. and Ext. L.S.
RA.430391	Coil S.W. Ae.	R.138635	Panel Socket P.U.
RA.430399	Coil L.W. Osc	R.138636	Panel Socket L.S.
RA.430400	Coil M.W. Osc	R.138637	Panel Socket Volt. Sel. 200—225, 226—250
RA.430401	Coil S.W. Osc.	R.138501	Plug V. Selector
RA.430388	Coil I.F. Trap	R.138524	Plug P.U.
RA.415031	Coil I.F.T. 1 and 2	645/0005	Pointer and Carriage
R.301508	Core Iron Dust	R.158639	Pot. 1M. Vol. R.8
R.125576	Drive Single Speed	R.158642	Pot. 1/4M. S.P.S.T. Tone R17
R.125557	Drum 4 1/2"	R.125566	Pulley Idler
375/0005/1	Escutcheon. Radio	757/0018	Scale Glass
375/0002/1	Escutcheon. Gram.	R.190553	Speaker 10".
R.127521	Gang Condenser	R.122503	Spring Cord Tension.
R.164528	Grommet Gang Mtg.	R.153568	Switch Wavechange
R.164532	Grommet Locating Bkt.	R.159626	Trans. Mains.
R.157508	Holder Pilot Lamp	908/0002	Trans. O.P.T.
R.121511	Holder Valve B8A	R.128516	Trimmer 3 x 4-40 pF
		R.165505	Washer Felt Small
		R.165504	Washer Felt Large

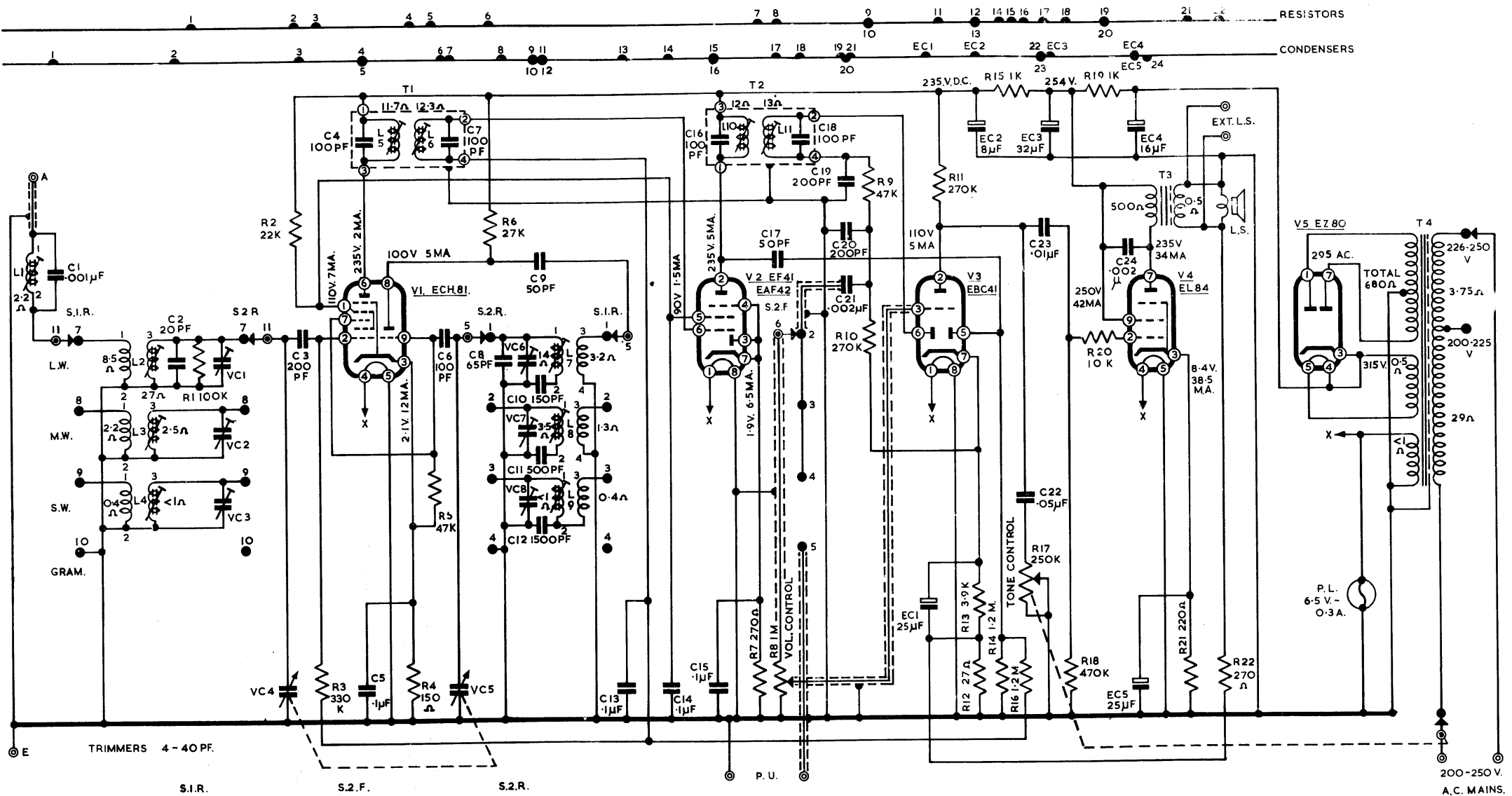




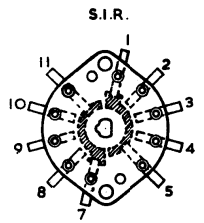
TOP CHASSIS LAYOUT



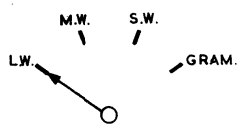
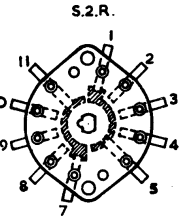
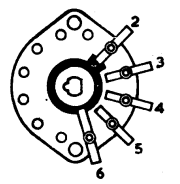
UNDER CHASSIS LAYOUT



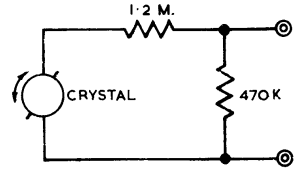
TRIMMERS 4-40PF.



SWITCH WAFERS AS VIEWED ON UNDER CHASSIS FROM KNOB



SWITCH POSITION



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

CIRCUIT DIAGRAM