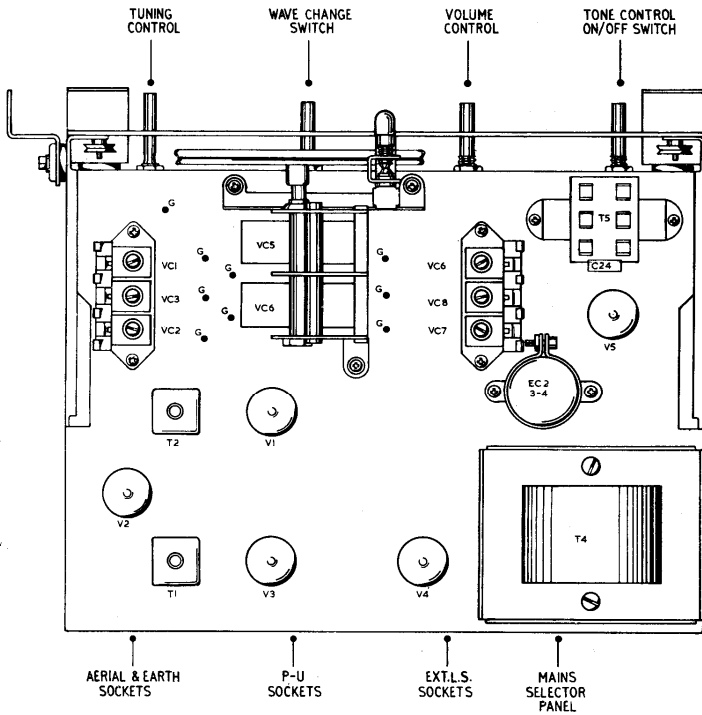


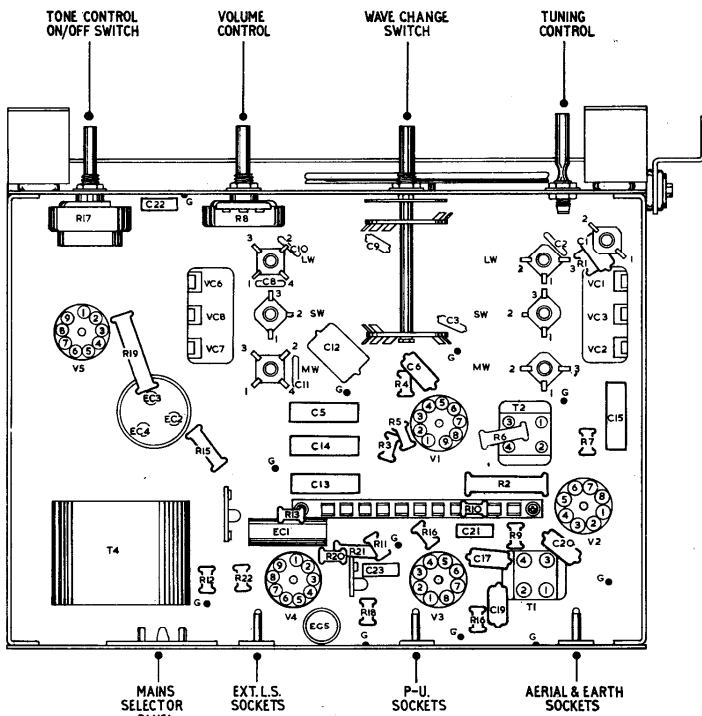
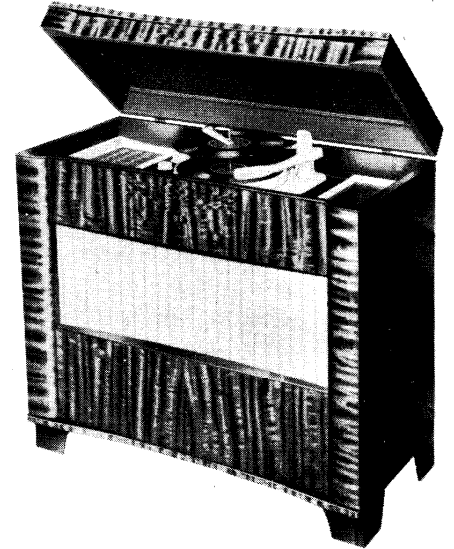


# REGENTONE Service

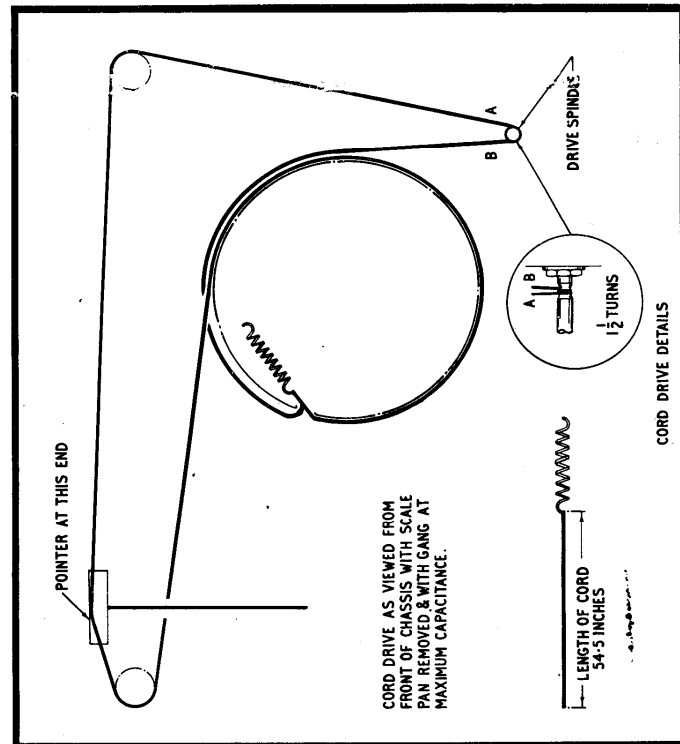
BULLETIN No. 116  
MODEL ARG 77



TOP CHASSIS LAYOUT



UNDER CHASSIS LAYOUT



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ROMFORD., ESSEX.

R.174258

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. Monarch UA5.  
Output Power -  $2\frac{1}{2}$  Watts. 10 Dbs. Negative Feedback.

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

### DISMANTLING INSTRUCTIONS

In order to remove the chassis from the cabinet, the following procedure should be adopted.

1. Tune the receiver to place the pointer at the top, i.e. the high frequency end of the scale.
2. Remove all knobs by pulling upwards.
3. Remove cabinet back.
4. Remove A.E. & P.U. Plugs.
5. Unsolder 2 Motor Mains leads from tag panel and 2 speaker leads from speaker.
6. Remove 1 screw securing rear chassis bracket to top back rail of cabinet.
7. The chassis may now be withdrawn by sliding backwards.

Note:- The chassis must be lowered enough to clear the pointer as soon as the rear bracket is free of the slide in which it runs, and a further pull will bring the other bracket out of its slide.

### 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.

REPLACEMENT PARTS.

Part No.	Description
R.148568	Bkt. Gang Mtg. Front
R.148661	Bkt. " " Rear
R.142585	Clip Scale Ret.
R.142504	" Knob "
R.142566	" Chassis locating
R.142577	" cable (Mains Lead)
R.142583	" Coil Mtg.
R.142502	" Idler Pulley Ret.
RA.430389	Coil L.W. Ae.
RA.430380	" M.W. Ae.
RA.430391	" S.W. Ae.
RA.430399	" L.W. Osc.
RA.430400	" M.W. Osc.
RA.430401	" S.W. Osc.
RA.430388	" I.F. Trap
RA.415031	" I.F.T. 1 & 2
R.301508	Core Iron Dust
R.125576	Drive Single Speed
R.125557	Drum 4 1/2"
R.172538	Escutcheon
R.127521	Gang Condenser
R.164528	Grommet Gang Mtg.
R.164532	" Chassis Supp.
R.164532	" Locating Bkt.
R.164523	" Cabt. Locating Peg
R.157508	Holder Pilot Lamp
R.121511	Holder Valve B8A
R.121525	" " B9A
R.169512	Knob Tone On/Off. Tuning
R.169513	Knob Volume
R.175598	Knob Wavechange
R.138634	Panel Socket A.E.
R.138635	Panel " P.U.
R.138636	" " L.S.
R.138637	" " Volt. Sel.
	200-225, 226-250
R.138501	Plug V. Selector.
R.138524	Plug P.U.
RA.407025	Pointer & Carriage
R.158639	Pot. 1M. Vol. R.8
R.158642	Pot. 1/4M. S.P.S.T. Tone 17
R.125566	Pulley Idler
R.126648	Scale Glass
R.190553	Speaker 10".
R.122503	Spring Cord Tension.

R.153568	Switch Wavechange
R.159626	Trans. Mains.
R.159590	" O.P.T. 7,000Ω - 3Ω
R.128516	Trimmer 3 x 4-40 pF
R.165505	Washer Felt Small
R.165504	" " Large

CAPACITORS.

Part No.	Value	± % Tol.	W.V.	Ref.
R.131608	16.32.8 μF	El.	350	E.C.4 3,2
R.131609	25 μF	"	25	E.C.1,5
R.129740	0.1 μF		350	C.5,13 14,15
R.129701	0.01μF		500	C.22,23
R.129746	0.002μF		500	C.21.
R.129708	0.002μF		1000	C.24.
R.129815	0.001μF	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	1/4	R.15
R08.22110	220Ω	10	1/4	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	270Ω	10	1/4	R.7,22
R09.15110	150Ω	10	1/4	R.4
R09.27010	27Ω	10	1/4	R.12

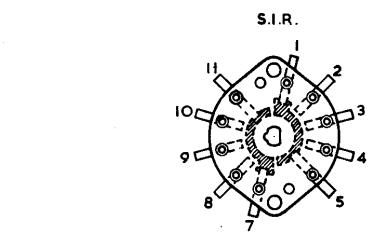
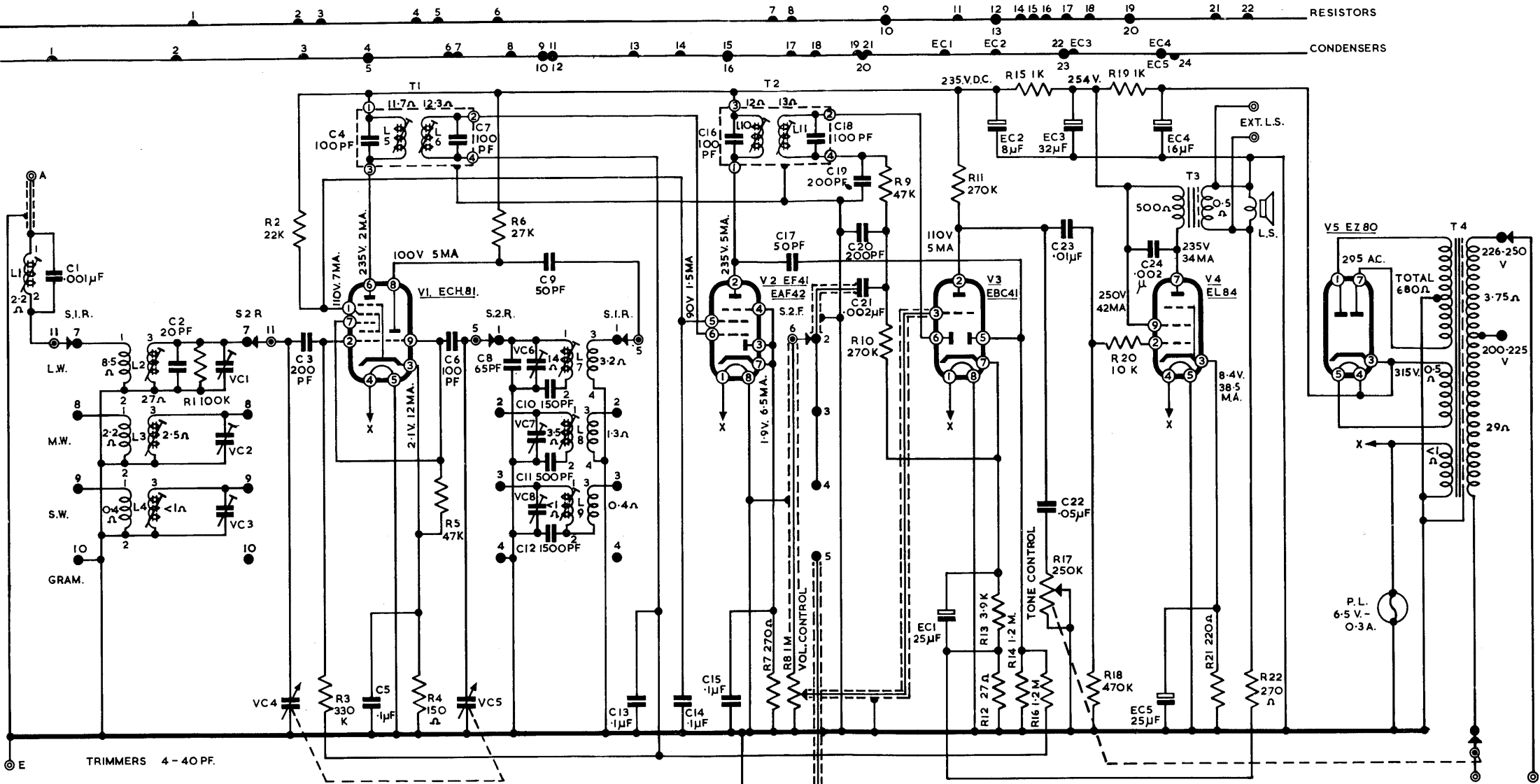
ERRATA

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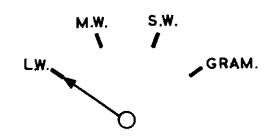
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RESISTORS

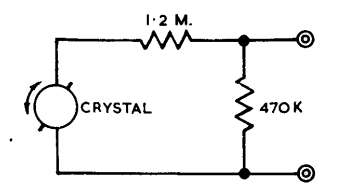
CONDENSERS



SWITCH WAFERS AS VIEWED ON UNDER CHASSIS FROM KNOB



SWITCH POSITION



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

200-250 V. A.C. MAINS.