

AUTOMATIC TUNING

This receiver is fitted with a five button per-meability tuned automatic station selector which can be operated when the wave change switch is on the "Broadcast" band.

The following is the frequency coverage of each automatic circuit from LEFT to RIGHT:-

1st Button.....535-840 K.C.
 2nd Button.....535-840 K.C.
 3rd Button.....615-1015 K.C.
 4th Button.....615-1015 K.C.
 5th Button.....850-1510 K.C.

VOLTAGE READINGS SOCKET PINS TO CHASSIS

TUBE	CAP.	1	2	3	4	5	6	7	8
6K8	++	0	0	245	95	-3.5	75	6.3 AC	0
6K7	++	0	0	245	95	0	+	6.3 AC	0
6Q7	0	0	0	100	++	++	+	6.3 AC	0
6F6G	-	0	0	225	245	0	-	6.3 AC	14.5
5Y4G	-	-	-	325 AC	+	325 AC	-	310	310

+ Used as anchoring lug.

++ Bias Cell.

ALIGNMENT PROCEDURE, ETC MODELS 157, 158, 167, 168

BAND SW. SETTING	CONNECT OUTPUT TO	INPUT FREQUENCY	DIAL SETTING	ADJUST	CIRCUIT RESONATED	REMARKS
+ BC	C.G. 6K8	462.5 KC		L9, L8, L7, L6	IF Input & Output	Adjust for Max. Output
++ BC	A & G	1600 KC	1600 KC	C5	BC Osc.	Adjust for Resonance
BC	A & G	1600 KC	1600 KC	C4	BC R.F.	Adjust for Max. Output
BC	A & G	580 KC	580 KC	L5	BC Osc.	(Osc. Padder Rock Gang)
++31 M.	A & G	9.6 MC	9.6 MC	L3	31 M. Osc.	Adjust for Resonance.
31 M.	A & G	9.6 MC	9.6 MC	C10	S.W. R.F.	Adjust for Max. Output
49 M.	A & G	6 MC	6 MC	L4	49 M. Osc.	Adjust for Resonance
25 M.	A & G	11.7 MC	11.7 MC	L2	25 M. Osc.	Adjust for Resonance
19 M.	A & G	15.2 MC	15.2 MC	L1	19 M. Osc.	Adjust for Resonance

+ I.F. Alignment: Short osc. section of gang capacitor through 0.1 mfd. For oscillograph alignment; connect oscillograph input across R5. Adjust for overlapping double image of maximum amplitude.

++ Before proceeding with R.F. Alignment, see that dial pointer is set over last graduation mark at low frequency end. Set gang at maximum capacity and push-button switch in Dial Tuning position.

+++ Note 31 Metre Band must be aligned before any of the other short-wave bands.

WAVE TRAP: Apply strong 462.5 K.C. signal to A & G Terminals and adjust C.31 for minimum signal.

