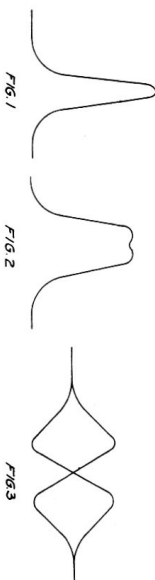


ALIGNMENT PROCEDURE FOR MODEL 139

BAND SW. SETTING	SELECT SW. SETTING	INPUT FREQ.	CONNECT S.G. TO	ALIGNER TO BE ADJUSTED	RE MARKS
B.C. BAND	SHARP	462.5 KC	CAP OF 6L7	BOTTOM & TOP ALIGNERS ON NO. 2 & NO. 1 I.F.'S UNTIL FIG. 1 IS PRODUCED.	A.F. LEAD ON BACK OF CHASSIS SHOULD BE ATTACHED TO "RAD" TERMINAL. OSC. SECTION OF GANG TO BE SHORTED THROUGH 0.1 MFD CAPACITOR.
B.C. BAND	BROAD	462.5 KC	CAP OF 6L7	TOP ALIGNER ON NO. 2 TERN. TO PRODUCE FIG. NO. 2.	AS ABOVE
B.C. BAND	SHARP	462.5 KC	CAP OF 6L7	BOTTOM ALIGNER ON DOSE FIG. NO. 3.	SHORT OSC. GANG AS ABOVE. A.F.C. LEAD DISCONNECTED.

*Oscilloscope should connect across diode load resistor (R37) — B/5 on Model 139.

**Oscilloscope should connect between A.F.C. wandering lead and chassis.

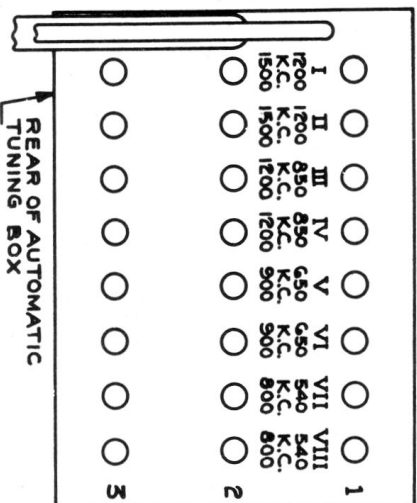


R.F. ALIGNMENT

BAND SW. SETTING	CONNECT S.G. TO	INPUT FREQ.	RECEIVER DIAL	ADJUST TRIMMER	TRIMMER FUNCTION	ADJUSTMENT REMARKS
**						
B.C. BAND	A & G TERM.	1500 KC	1500 KC	C12	OSC. DET.	ADJUST TO TUNE SIGNAL
B.C. BAND	A & G TERM.	1500 KC	1500 KC	C8	OSC. DET.	ADJUST FOR MAX. OUTPUT
B.C. BAND	A & G TERM.	1500 KC	1500 KC	*L1	OSC. PADDER	ADJUST FOR MAX. OUTPUT
POL. BAND	A & G TERM.	5 MC	5 MC	C13	OSC. DET.	ADJUST TO TUNE SIGNAL
POL. BAND	A & G TERM.	5 MC	5 MC	C9	OSC. DET.	ADJUST FOR MAX. OUTPUT
POL. BAND	A & G TERM.	5 MC	5 MC	C28	OSC. PADDER	ADJUST FOR MAX. OUTPUT
M.V. BAND	A & G TERM.	13 MC	13 MC	C14	OSC. DET.	ADJUST TO TUNE SIGNAL
M.V. BAND	A & G TERM.	13 MC	13 MC	C10	OSC. DET.	ADJUST FOR MAX. OUTPUT
M.V. BAND	A & G TERM.	13 MC	13 MC	C23	OSC. PADDER	ADJUST FOR MAX. OUTPUT
S.W. BAND	A & G TERM.	21 MC	21 MC	C15	OSC. DET.	ADJUST TO TUNE SIGNAL
S.W. BAND	A & G TERM.	21 MC	21 MC	C11	OSC. DET.	ADJUST FOR MAX. OUTPUT
S.W. BAND	A & G TERM.	14 MC	14 MC	C24	OSC. PADDER	ADJUST FOR MAX. OUTPUT

** Before proceeding with R.F. alignment check setting of dial indicator. With gang at maximum pointer should be set over last graduation mark at left of dial. All R.F. alignment should be done with selectivity switch in "Sharp" position.

* On B.C. Osc. coil easy.

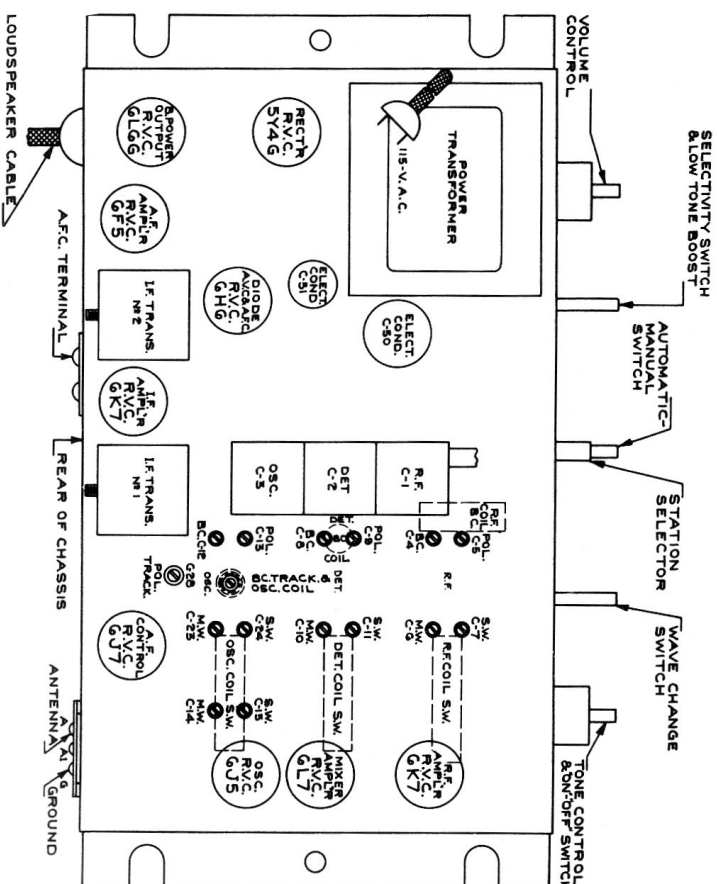


VOLTAGE READINGS SOCKET PINS TO CHASSIS MODEL 139

TUBE	3	1	2	3	4	5	6	7	8
6X7 R.F.	-0.25	0	0	230	90	0	-	6.3 AC	0
6L7	-0.1	0	0	230	90	-0.5	-	6.3 AC	2
6J5	-	0	0	125	-	0	-	6.3 AC	0
6X7 I.F.	-0.5	0	0	230	90	* 230	-	6.3 AC	0
6H6	-	0	0	-0.4	0	0	-	6.3 AC	0
6J7	0	0	0	230	90	5.5	-	6.3 AC	5.75
6F5	-0.6	0	0	* 125	125	-	-	6.3 AC	0
6L6G	-	0	0	215	230	-10	* -13	6.3 AC	0
5Y4G	-	-	-	340 AC	-	340 AC	-	300	300

* Anchoring lug only.

All readings taken with receiver on Broadcast Band, Manual-Automatic switch in Manual position, Gang Capacitor at maximum and volume control at maximum.



Marconi Model 139