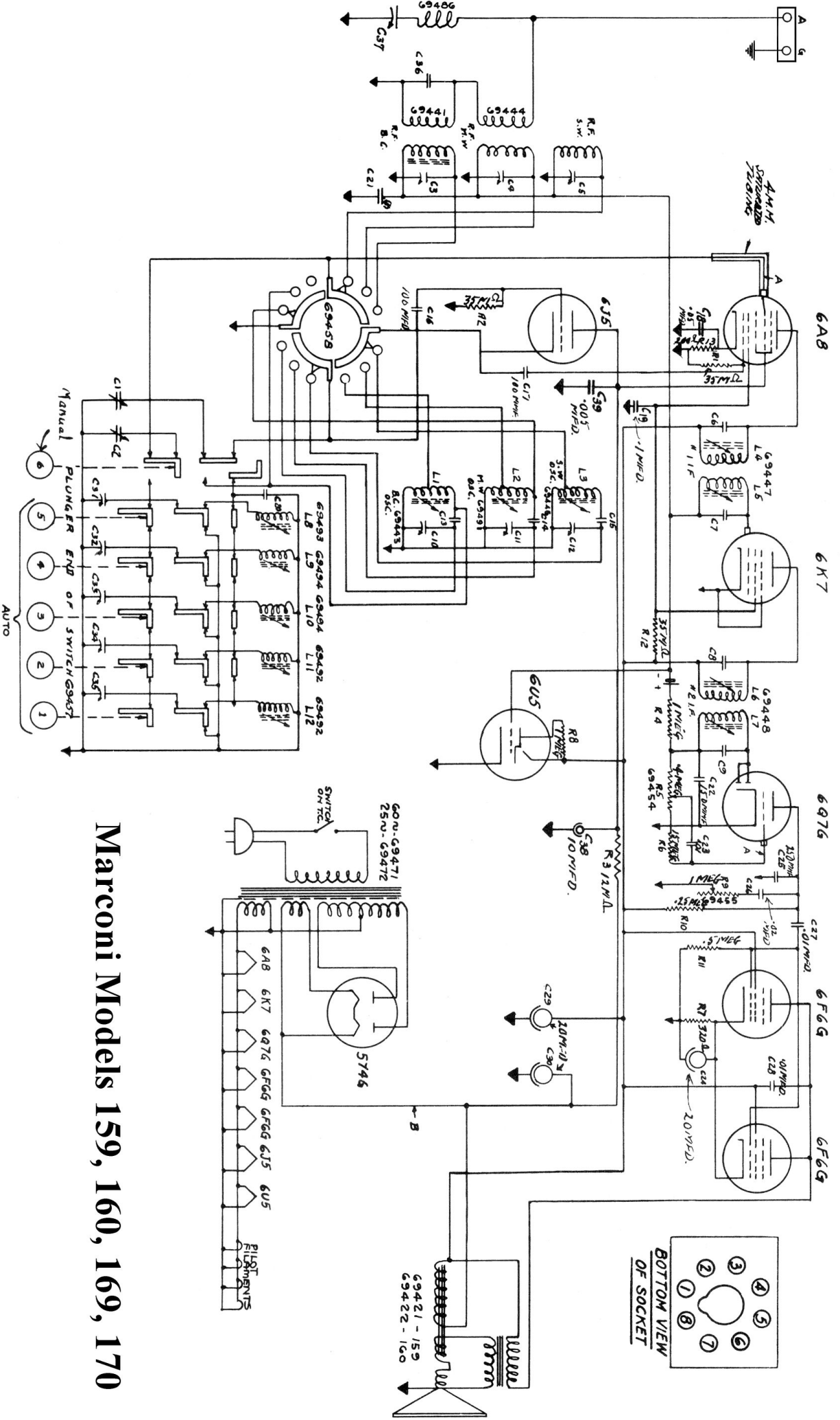




Marconi Models 159, 160, 169, 170

Alignment Procedure 159, 160, 169, 170

BAND SW. SETTING	CONNECT S.G. OUTPUT TO	INPUT FREQ.	REC. DIAL SETTING	DRUM IND. SETTING	ADJUST	CIRCUIT RESON-ATED	REMARKS
* BC	cap of 6A8	462.5 KC	**		cores L7, L6, L5, L4	IF Input & Output	Max. Output
** BC	A & G	1600 KC	160	162	C10	BC Osc.	Resonate
BC	A & G	1600 KC	160	162	C3	BC R.F.	Max. Output
BC	A & G	580 KC	58	22.5	Core L1	BC Osc.	Rock Gang
MW	A & G	6 MC	6 MC	153	C11	MW Osc.	Resonate
MW	A & G	6 MC	6 MC	153	C4	MW R.F.	Max. Output
MW	A & G	2.5 MC	2.5 MC	32.5	Core L2	MW Osc.	Rock Gang
SW	A & G	20 MC	*** 20 MC	157	C12	SW Osc.	Resonate
SW	A & G	20 MC	20 MC	157	C5	SW R.F.	Max. Output
SW	A & G	8 MC	8 MC	35.4	Core L3	SW Osc.	Rock Gang

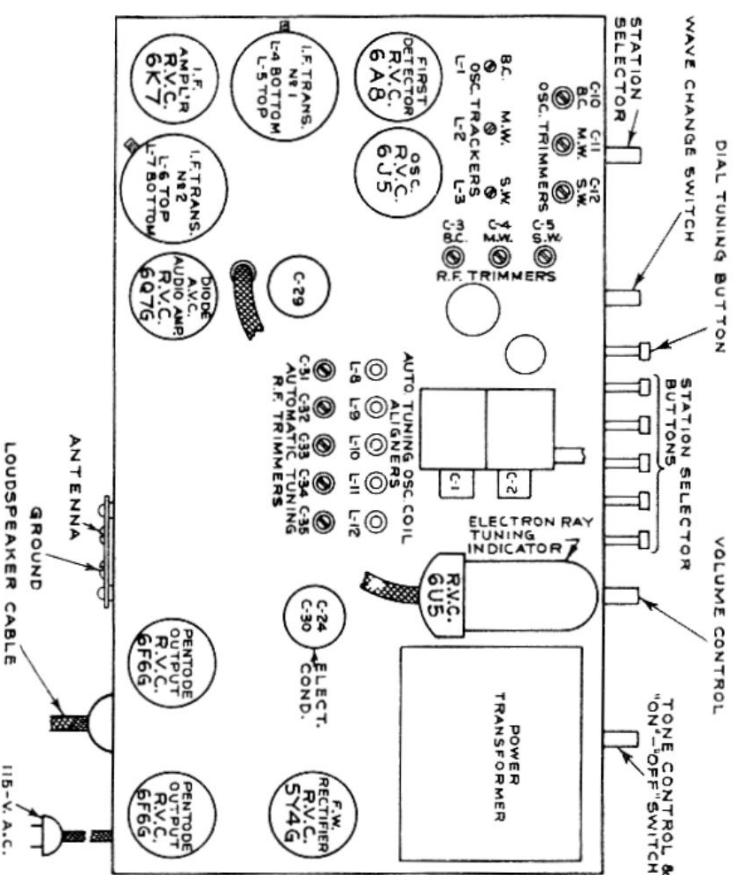
* I.F. ALIGNMENT: Short osc. section of gang capacitor through 0.1 Mfd. For oscillograph alignment, connect oscillograph across R-5. Adjust for overlapping double image of maximum amplitude.

** Before proceeding with R.F. Alignment, see that dial pointer is set over last graduation mark at low frequency end (gang to be at maximum capacity). It is also important to see that the "Dial Tuning" button is depressed.

If the chassis is realigned in the cabinet, the above dial settings may be followed. If, however, the chassis is removed, the dial scale is left attached to the cabinet. In order to guide servicemen working under the latter circumstances, a scale calibrated in 180 degrees has been attached to the back of the dial drum. A pointer should be improvised from a piece of stiff wire and with the gang capacitor set at maximum capacity (plates fully meshed) the improvised pointer should be set to 0 degrees. The Drum Indicator readings shown in the alignment chart can then be followed. After chassis has been re-aligned and installed in cabinet set Dial Pointer to last calibration mark on low frequency end with gang capacitor at maximum and clip same to drive cord.

WAVE TRAP: Apply a strong 462.5 KC to A & G input and adjust C37 for minimum signal.

***When correctly aligned another weak response is heard at 19.075 M.C. (152°).



VOLTAGE READINGS SOCKET PINS TO CHASSIS

TUBE	CAP	1	2	3	4	5	6	7	8
6A8	**	0	0	240	125	-2.6	115	6.3 AC	0
6J5	-	0	0	125	-	0	-	6.3 AC	0
6K7	**	0	0	240	115	0	-	6.3 AC	0
6Q7G	0	0	0	80	**	**	*	6.3 AC	0
6F6G	-	0	0	225	240	0	*	6.3 AC	15
6F6G	-	0	0	225	240	0	*	6.3 AC	15
5Y4G	-	-	*	320 AC	-	320 AC	*	280	280

* Used as anchoring lug.

Above readings are approximate and will vary depending on the resistance of the voltmeter used. Readings are taken on lowest scale that will accommodate the voltage under test, with receiver on broadcast band, volume control at maximum and gang capacitor at maximum.

** Bias Cell.

AUTOMATIC TUNING

This receiver is fitted with a Five-button permeability tuned automatic station selector. It will be observed that the 6th (extreme right) button, marked "Dial Tuning" operates a switch which either opens or closes the gang capacitor connections to the R.F. and Oscillator coils. It is therefore necessary to depress this switch when using the "Manual Station Selector". The switch in The following is the frequency coverage of each automatic circuit from LEFT to RIGHT.

1st Button.....	535-900 K.C.
2nd Button.....	535-900 K.C.
3rd Button.....	650-1130 K.C.
4th Button.....	650-1130 K.C.
5th Button.....	900-1500 K.C.