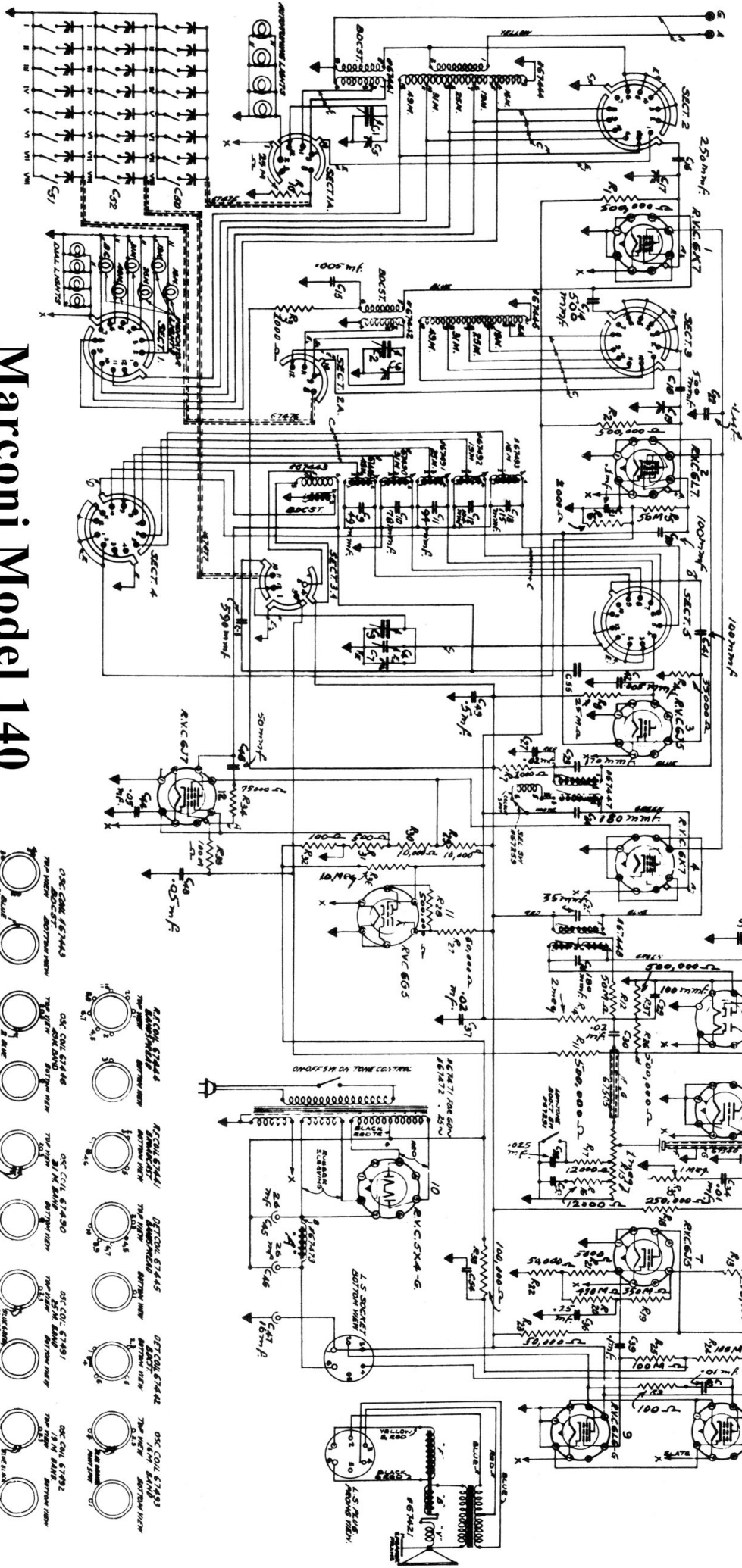
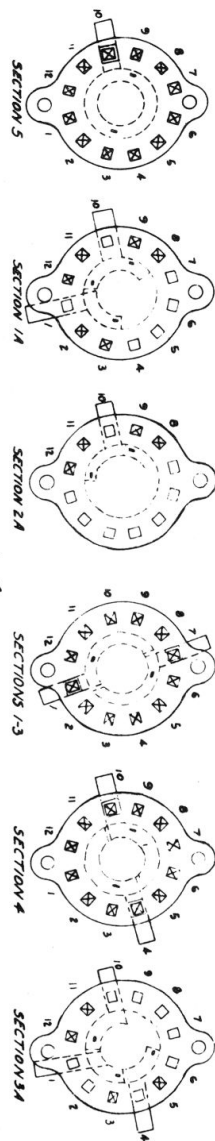
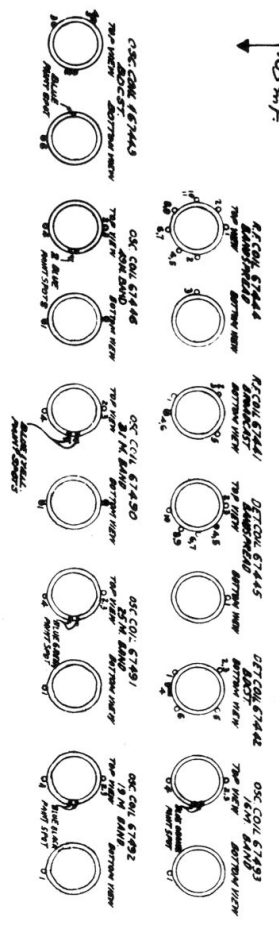




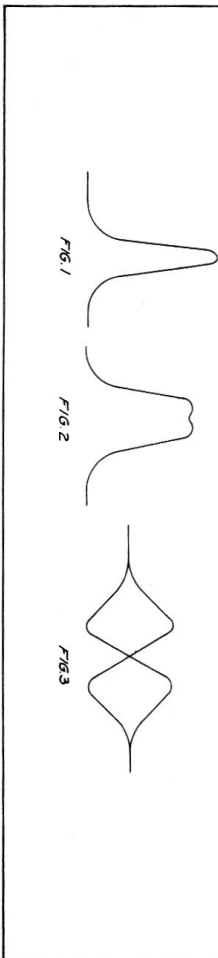
# Marconi Model 140



# ALIGNMENT PROCEDURE FOR MODEL 140

| BAND SW. SETTING | SELECT SW. SETTING | INPUT FREQ. | CONNECT S.C. TO | ALIGNER TO BE ADJUSTED                                                  | REMARKS                                                                                                                           |
|------------------|--------------------|-------------|-----------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| B.C. BAND        | SHARP              | 462.5 KC    | CAP OF 6L7      | BOTTOM & TOP ALIGNERS ON NO. 2 & NO. 1 I.F.'S UNIT. FIG. 1 IS PRODUCED. | A.F. CLEAD ON BACK OF CHASSIS SHOULD BE ATTACHED TO "REAR" TERMINAL OSC. SECTION OF GAND 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 NO. 2 TERN. NO. 3.                                    | SHARP OSC. GAND AS SHORTED TO "C" LEAD DISCONNECTED.                                                                              |

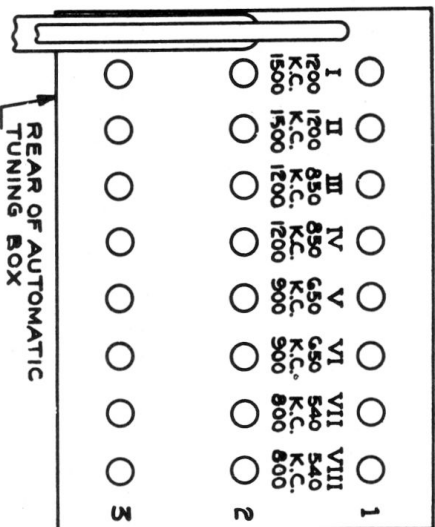
\*\*A.F.C. ALIGNMENT  
\*Oscilloscope should connect across diode load resistor (R37) - B.15 on Model 140  
\*Oscilloscope should connect between A.F.C. wandering lead and chassis.



## \*\*R.F. ALIGNMENT

| BAND SW. SETTING | CONNECT S.C. TO | INPUT FREQ. | RECEIVER DIAL | ADJUST TRIMMER | TRIMMER FUNCTION | ADJUSTMENT REMARKS     |
|------------------|-----------------|-------------|---------------|----------------|------------------|------------------------|
| 25 M. BAND       | A & G TERN.     | 11.7 MC     | 11.7 MC       | 25M.           | OSC. ALIGNER     | ADJUST TO TUNE SIGNAL  |
| 25 M. BAND       | CAP EXT-RF      | 11.7 MC     | 11.7 MC       | C17            | DET. TRIMMER     | ADJUST FOR MAX. OUTPUT |
| 25 M. BAND       | A & G TERN.     | 11.7 MC     | 11.7 MC       | C17            | R.F. TRIMMER     | ADJUST FOR MAX. OUTPUT |
| 49 M. BAND       | A & G TERN.     | 6 MC        | 6 MC          | 49 M.          | OSC. ALIGNER     | ADJUST TO TUNE SIGNAL  |
| 31 M. BAND       | A & G TERN.     | 9.6 MC      | 9.6 MC        | 31 M.          | OSC. ALIGNER     | ADJUST TO TUNE SIGNAL  |
| 19 M. BAND       | A & G TERN.     | 15.2 MC     | 15.2 MC       | 19 M.          | OSC. ALIGNER     | ADJUST TO TUNE SIGNAL  |
| 16 M. BAND       | A & G TERN.     | 18 MC       | 18 MC         | 16 M.          | OSC. ALIGNER     | ADJUST TO TUNE SIGNAL  |
| B.C. BAND        | A & G TERN.     | 1600 KC     | 1600 KC       | C7             | B.C. OSC.        | ADJUST TO TUNE SIGNAL  |
| B.C. BAND        | A & G TERN.     | 1600 KC     | 1600 KC       | C8             | B.C. DET.        | ADJUST FOR MAX. OUTPUT |
| B.C. BAND        | A & G TERN.     | 1600 KC     | 1600 KC       | C9             | B.C. OSC.        | ADJUST FOR MAX. OUTPUT |
| B.C. BAND        | A & G TERN.     | 1600 KC     | 1600 KC       | C10            | B.C. OSC.        | ADJUST FOR MAX. OUTPUT |

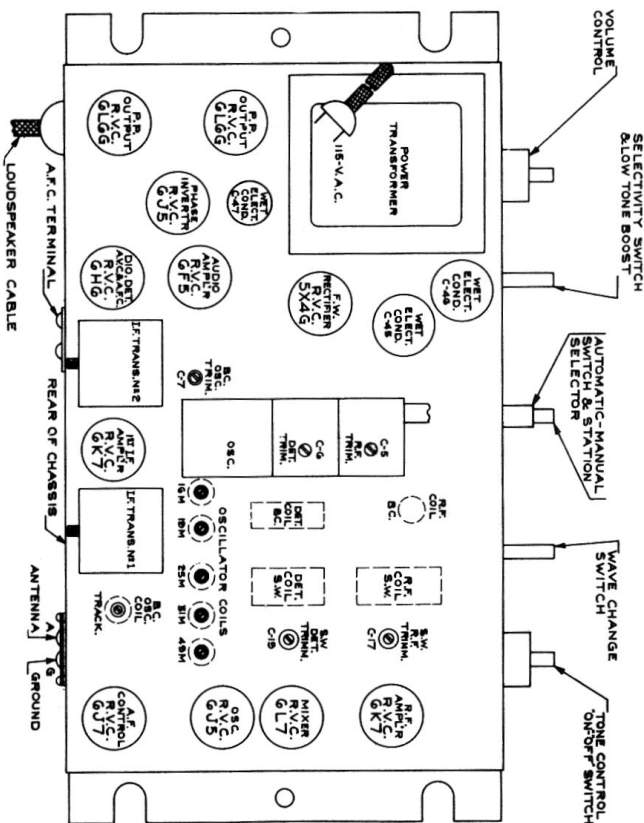
\*\* R.F. ALIGNMENT: Before proceeding with R.F. alignment check setting of dial indicator. With gang capacitor fully meshed, indicator should be set directly over last graduation mark at left of dial.  
NOTE: - It is important that the alignment sequence as outlined above be followed.



## VOLTAGE READINGS SOCKET PINS TO CHASSIS MODEL 140

| TUBE     | CAP  | PIN 1 | PIN 2 | PIN 3  | PIN 4 | PIN 5  | PIN 6  | PIN 7  | PIN 8 |
|----------|------|-------|-------|--------|-------|--------|--------|--------|-------|
| 6K7 RF   | -0.4 | 0     | 0     | 210    | 90    | 0      | *-0.5  | 6.3 AC | 0     |
| 6L7      | -0.1 | 0     | 0     | 215    | 90    | 4      | -      | 6.3 AC | 6     |
| 6J5 Osc. | -    | 0     | 0     | 95     | -     | 0      | -      | 6.3 AC | 0     |
| 6K7 IF   | -0.5 | 0     | 0     | 215    | 90    | 0      | -      | 6.3 AC | 0     |
| 6H6      | -    | 0     | 0     | -0.4   | 0     | -0.4   | *-0.25 | 6.3 AC | 0     |
| 6I7      | 0    | 0     | 0     | 220    | 90    | 5      | -      | 6.3 AC | 5     |
| 6P5      | -0.6 | 0     | 0     | *0.6   | 115   | -      | *115   | 6.3 AC | 0     |
| 6J5 (PI) | -    | 0     | 0     | 170    | *15   | 10     | *50    | 6.3 AC | 55    |
| 6L6G     | -    | 0     | 0     | 210    | 220   | -12    | *-14   | 6.3 AC | 0     |
| 6L6G     | -    | 0     | 0     | 210    | 220   | -12    | *215   | 6.3 AC | 0     |
| 5X4G     | -    | -     | -     | 330 AC | -     | 330 AC | -      | 300    | 300   |

\*Anchoring lug only.  
Above readings are approximate and will vary slightly depending on the meter used and the line voltage.



Marconi Model 140