

K=1000  
ALL CAPACITANCE VALUES LESS THAN 1.0 ARE IN MF. AND ABOVE 1.0 ARE IN MMF. EXCEPT THOSE INDICATED.

RF  
12BA6

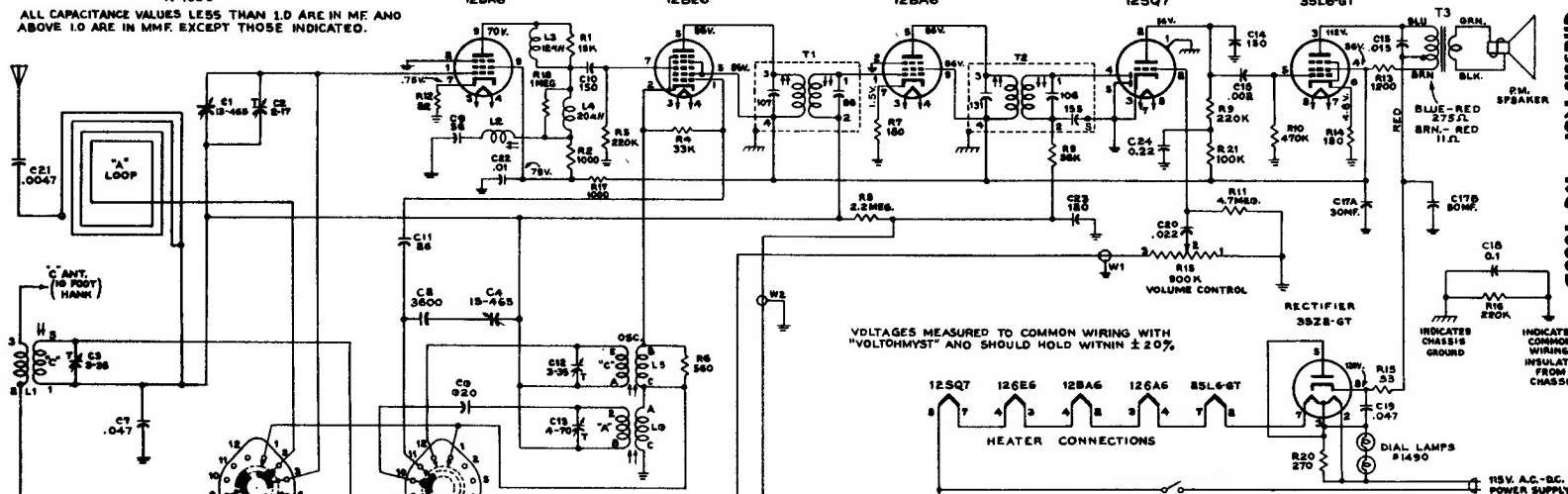
CONVERTER  
12BE6

I.F.  
12BA6

DET.-A.F.-A.M.C.  
12SQ7

OUTPUT  
35L6-GT

AC-DC Radio Receiver  
MODEL 2-X-621  
Chassis No. RC-1085B



VOLTAGES MEASURED TO COMMON WIRING WITH "VOLTHOMYST" AND SHOULD HOLD WITHIN ± 20%.

12SQ7 12BE6 12BA6 12BA6 35L6-GT  
HEATER CONNECTIONS

RECTIFIER  
35Z8-6T

INDICATES CHASSIS GROUND  
INDICATES COMMON WIRING INSULATED FROM CHASSIS

## ALIGNMENT PROCEDURE

| Steps | Connect the High Side of The Test Osc. to—                 | Tune Test Osc. to— | Range Switch to— | Turn Radio Dial to—       | Adjust for maximum output          |
|-------|------------------------------------------------------------|--------------------|------------------|---------------------------|------------------------------------|
| 1     | Pin No. 1 of 12BA6 I.F. amp tube in series with 0.1 mfd.   |                    |                  |                           | Top and bottom T2 2nd I.F. Trans.  |
| 2     | Pin No. 7 of 12BE6 Converter tube in series with 0.1 mfd.  | 455 kc.            | "A"              | Quiet Point near 1600 kc. | *Top and bottom T1 1st I.F. Trans. |
| 3     | Pin No. 1 of 12BA6 R.F. tube in series with 0.1 mfd.       |                    |                  |                           | L2 wave trap for minimum output.   |
| 4     |                                                            | 1620 kc.           |                  | 1620 kc. (Cap. min.)      | C-13 "A" Osc.                      |
| 5     | (Radiated signal) short piece of wire placed near ant.     | 1400 kc.           | "A"              | 1400 kc.                  | C-2 "A" ant.                       |
| 6     |                                                            | 600 kc.            |                  | 600 kc.                   | L6 "A" Osc. Rocking gang.          |
| 7     | Repeat steps 4, 5 and 6.                                   |                    |                  |                           |                                    |
| 8     | Center terminal on loop antenna Term. board through 47 mfd | 18.2 mc.           |                  | 18.2 mc. (Min. cap.)      | **C-12 "C" Osc.                    |
| 9     | Low side to loop primary terminal                          | 15.2 mc.           | "C"              | 15.2 mc.                  | ***†C-3 "C" Ant.                   |
| 10    |                                                            | 6.1 mc.            |                  | 6.1 mc.                   | ††L-5 "C" Osc. L-1 "C" Ant.        |
| 11    | Repeat steps 8, 9, and 10 as necessary.                    |                    |                  |                           |                                    |

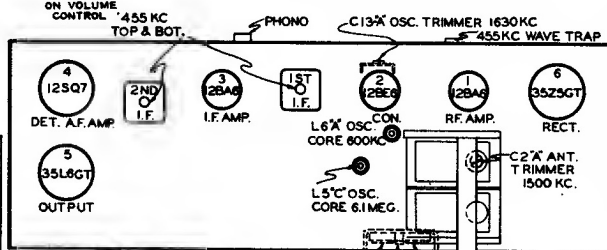
\*Use 18K resistor across primary when aligning secondary, across secondary when aligning primary.

\*\*Two peaks should be found, use one having lowest capacity.

\*\*\*Two peaks should be found, use one having highest capacity. Note: Check for image frequencies.

†Radio dial tuned to 15.2 mc. as in step 9, tune test osc. to 16.11 mc. where a weaker signal should be heard.

††Radio dial tuned to 6.1 mc. as in step 10, tune test osc. to 7.01 mc. where a weaker signal should be heard.



## Tube and Trimmer Locations

