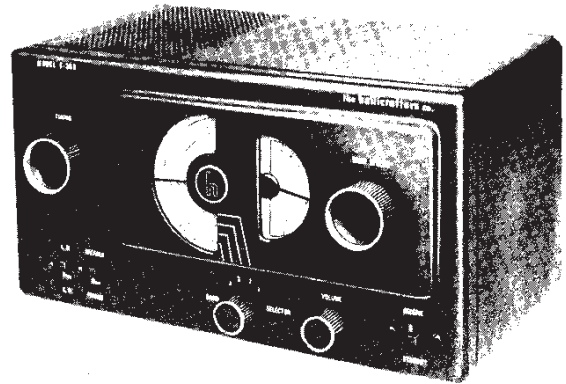


MODELS S-38A,  
S-38B

**GENERAL**

- Tubes . . . . . Four plus rectifier.
  - Speaker . . . . . 5-inch PM.
  - Voice Coil Impedance . . . . . 3.2 ohms.
  - Headset Output . . . . . Low impedance.
  - Antenna . . . . . Provisions for external antenna with transmission line or single wire feed.
  - Tuning . . . . . Manual
- | Tuning Range . . . . . | Band Selector Position | Frequency Range   |
|------------------------|------------------------|-------------------|
|                        | 1                      | 550 kc - 1850 kc. |
|                        | 2                      | 1.7 mc - 5.1 mc.  |
|                        | 3                      | 5 mc - 14.5 mc.   |
|                        | 4                      | 13 mc - 31 mc.    |
- Intermediate Frequency. . . . . 455 kc.
  - Power Supply. . . . . 105-125 V. DC or 60 cycles AC.
  - Power Consumption . . . . . 30 Watts



92X1153

**CAUTION** - The four rubber grommets insulate the chassis from the cabinet. Check the condition of these grommets and replace if necessary.

The standard RMA dummy antenna specified in the alignment chart consists of a 200 mmf condenser in series with a 20 uh r-f choke which is shunted by a 400 mmf condenser in series with a 400 ohm carbon resistor.

Set the following controls before alignment.

- AM/CW . . . . . Set at AM
- SPEAKER/PHONES . . . . . Set at SPEAKER
- VOLUME . . . . . Set at maximum
- RECEIVE/STANDBY. . . . . RECEIVE
- BAND SPREAD . . . . . Set at zero

For the settings of the remaining controls, see alignment chart.

**ALIGNMENT PROCEDURE**

Holes in the bottom cover permit minor adjustment of the oscillator and mixer stage trimmers, however for complete alignment, the chassis will have to be removed from the cabinet. To separate the chassis from the cabinet, remove the back cover and bottom plate. The chassis is fastened to the cabinet by four front panel screws located near the slide switches and two cabinet screws located at the bottom rear of the cabinet.

**ALIGNMENT CHART**

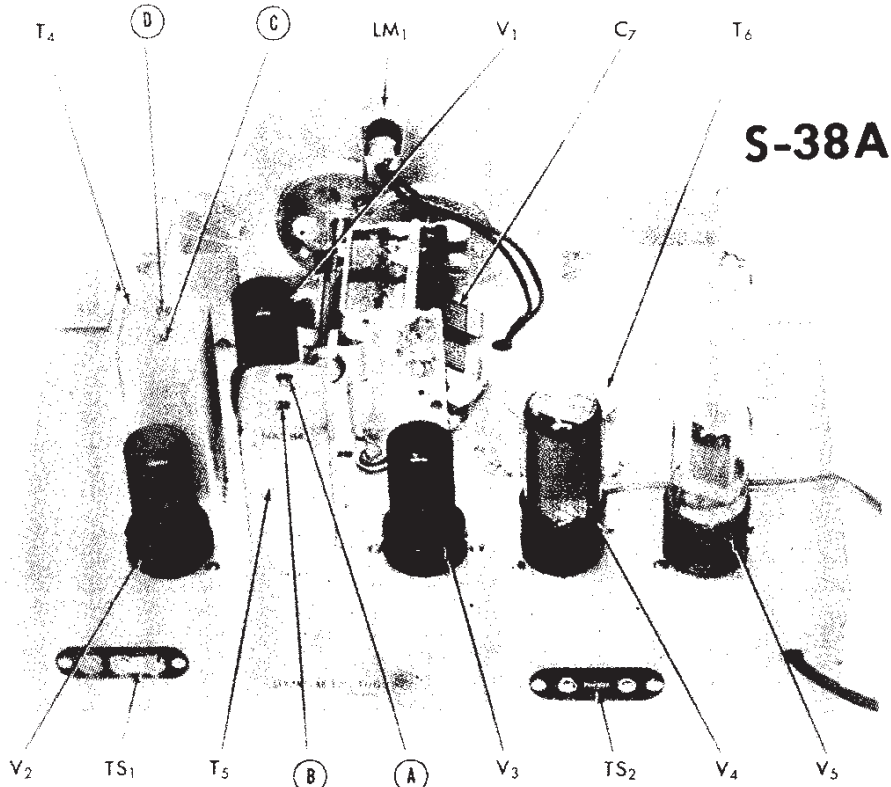
Step	Dummy Antenna	Signal Generator Coupling	Signal Generator Frequency	Band Selector Setting	Receiver Dial Setting	Adjust	Remarks
1	.01 mfd cap.	Stator plates, front section of tuning gang.	455 kc	1	1000 kc	A,B,C,D	Adjust for max. audio output at speaker voice coil. Use just enough signal generator output to obtain a 50 mw signal level.
2**	See step 1	See step 1	455 kc (No modulation)	1	1000 kc	E	Set the AM/CW switch at CW. (Reset the switch at AM when step 2 is completed.) Correct BFO operation is obtained by varying the coupling between the wire "E" and the 12SK7 tube grid and plate terminals (Pins 4 and 8.) Pushing the wire toward the grid terminal increases the capacity and the strength of the beat.
3	Std. RMA dummy	High side to term. A1 on antenna strip. Jumper wire between A2 and G	30 mc	4	30 mc	*F,G	Max. output as in step 1.
4	Std. RMA dummy	See step 3.	14 mc	3	14 mc	*H,J	Max. output as in step 1.
5	Std. RMA dummy	See step 3	5 mc	2	5 mc	*K,L	Max. output as in step 1.
6	Std. RMA dummy	See step 3	1500 kc 600 kc	1	1500 kc 600 kc	*M,N *P	Max. output as in step 1.

\* Note - Calibration adjustments.

\*\* Note - This step is generally unnecessary. Adjustment should be made if a weak beat note is obtained on strong c-w signals indicating lack of coupling between wire "E" and tube socket wiring.

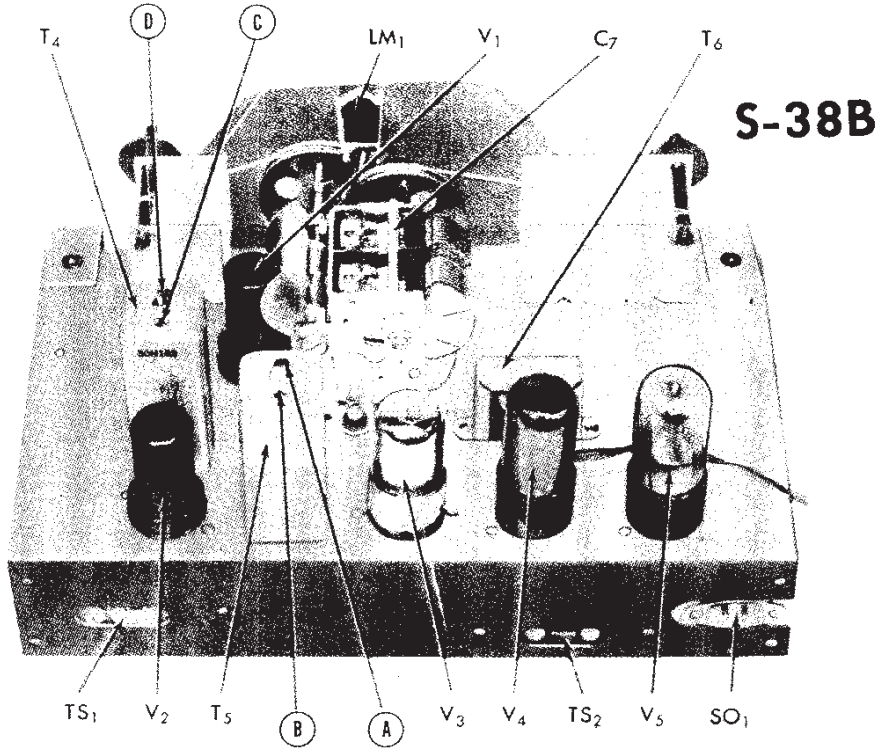
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92X812

Fig. 2. Top view, alignment adjustments and component location



92X1154

Fig. 2. Top view, alignment adjustments and component location

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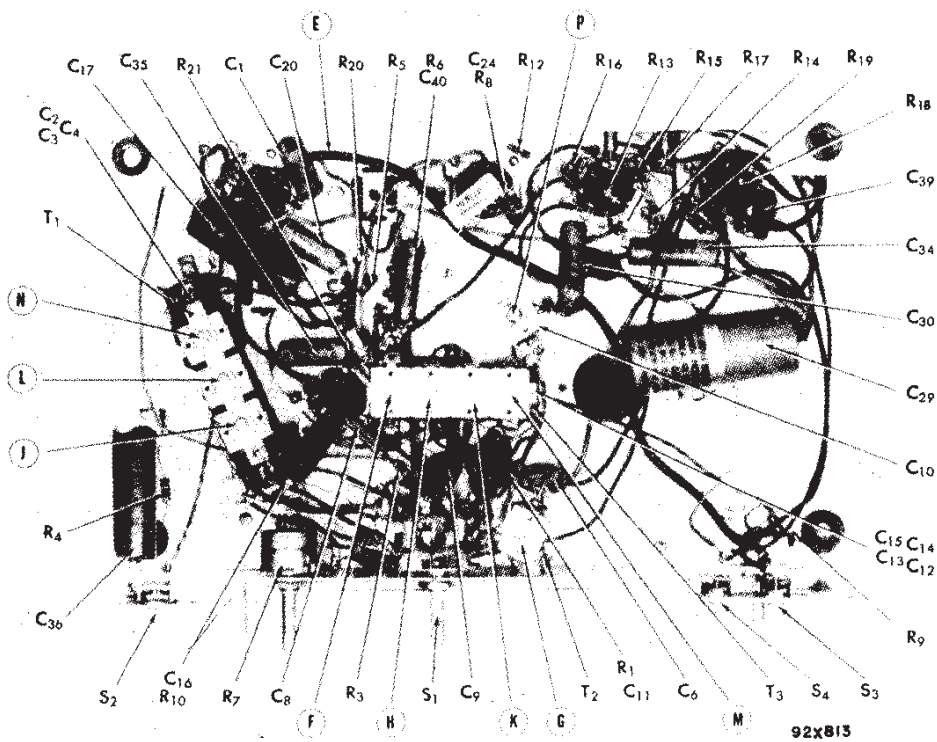


Fig. 3. Bottom view, alignment adjustments and component location

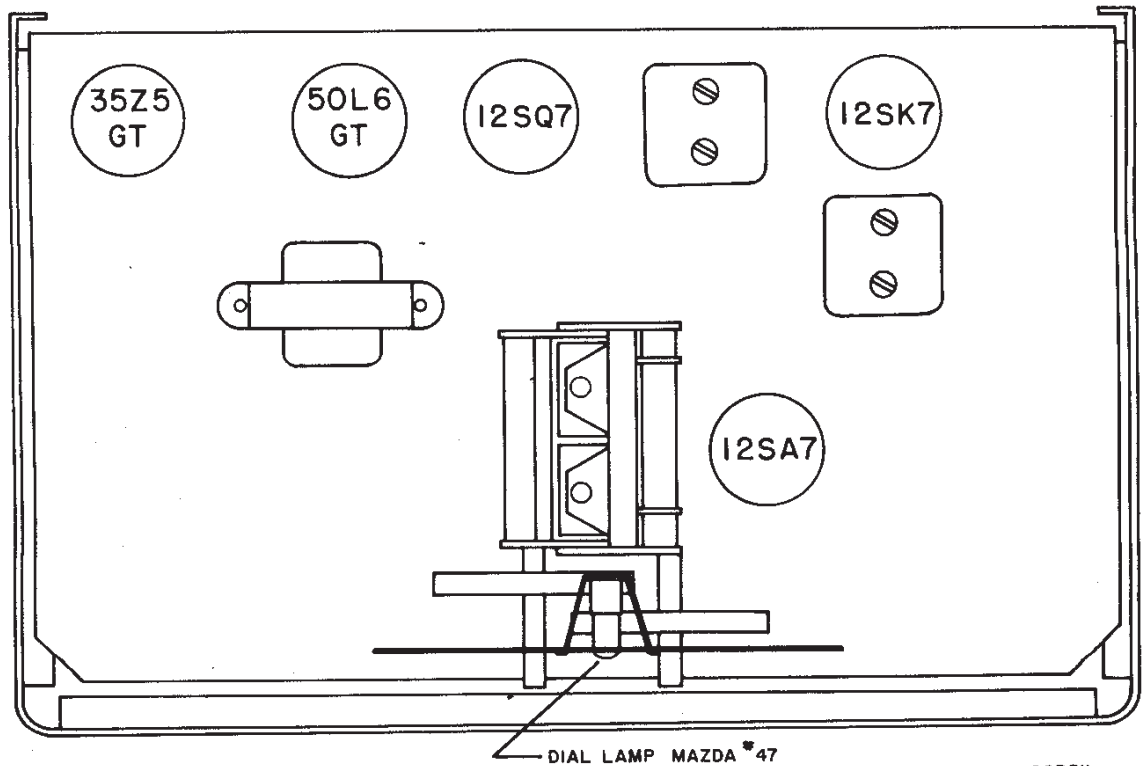
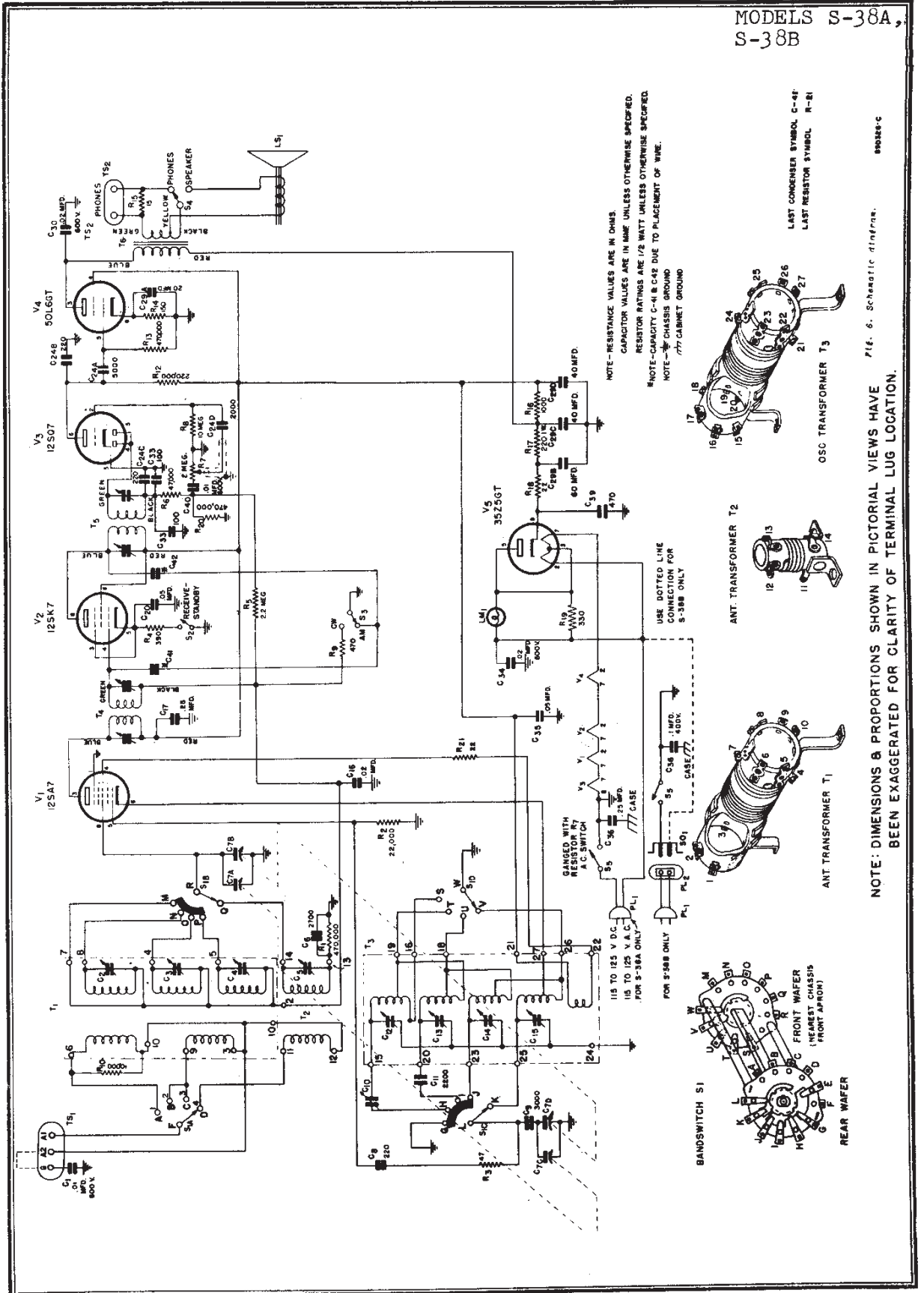


Fig. 4. Top view, location of tubes and dial lamps.

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