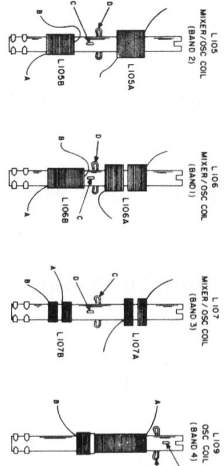
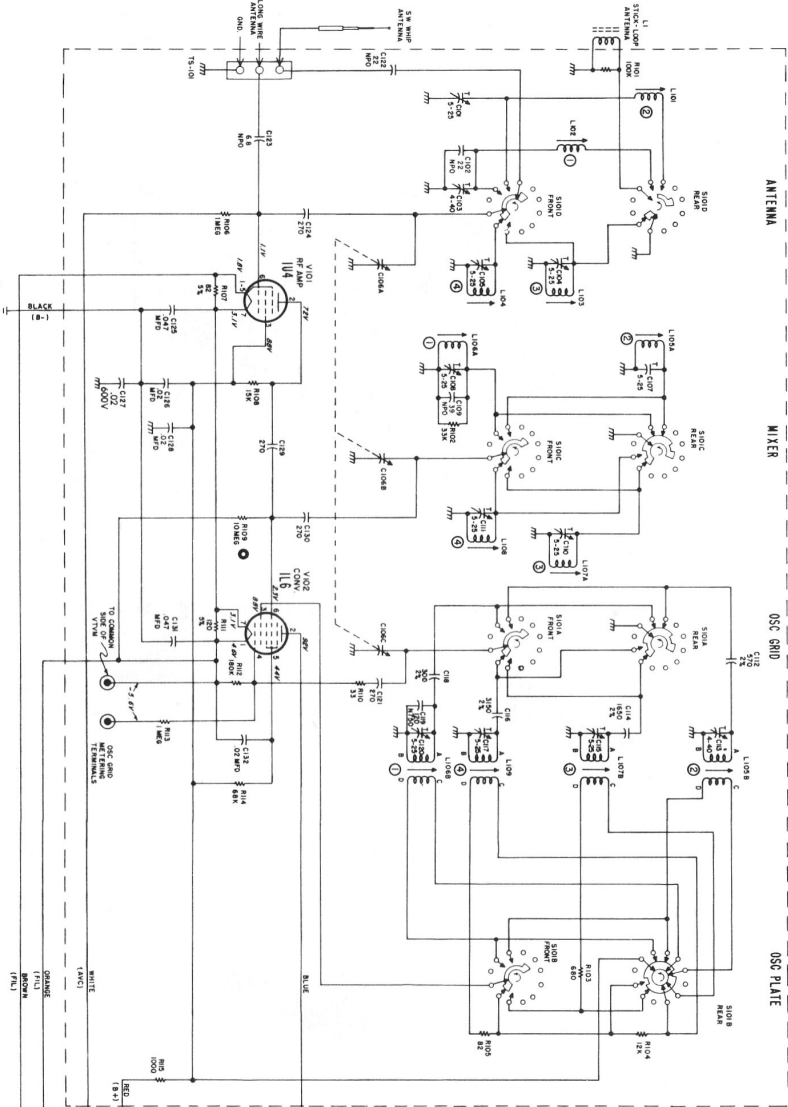


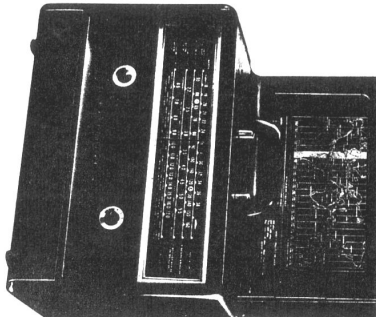
Hallicrafters TW-500C



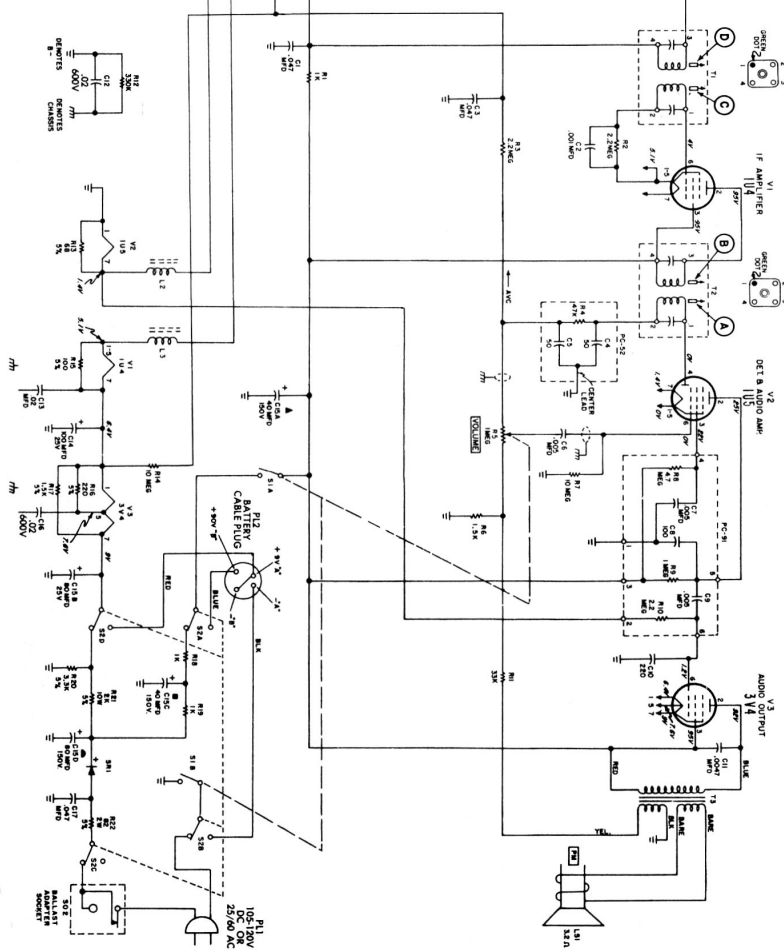
- NOTES:**
1. RESISTORS ARE 1/2 WATT AND 10% UNLESS OTHERWISE SPECIFIED.
 2. RESISTANCE IN OHMS AND CAPACITANCE IN MMF UNLESS OTHERWISE SPECIFIED. K=1000.
 3. INTERMEDIATE FREQUENCY-455 KC.
 4. POWER CHANGEOVER SWITCH IS 2 POSITION IN A.C./D.C. POSITION. FOR BATTERY OPERATION, INSERT LINE.
 5. LINE VOLTAGE-100V-110V.
 6. ALL VOLTAGES MEASURED WITH V-TAP BETWEEN TUBE SOCKET TERMINALS AND B-1 (1/2) VOLTAES ARE D.C. AND POSITIVE UNLESS OTHERWISE SPECIFIED. POSITION (BAND 2) WITH STOCK-LOOP ANTENNA SHORTED AND GAIN FULLY CLOSED.
 7. ON SOME SETS, R-109 IS 8.8 MEG (3.9 MEG RESISTOR ON THE TUNER CHASSIS IN SERIES WITH A 4.7 MEG RESISTOR ON THE MAIN CHASSIS).
 8. AVAILABLE AS AN ACCESSORY.
 9. FROM FACTORY OF SET.

TECHNICAL SPECIFICATIONS

- TUBES AND RECTIFIERS**..... 5 tubes plus 1 selenium rectifier.
- POWER SUPPLY**..... 105-120 volts DC or 25/60 cycle AC, 90V-120V/8V A+ battery pack, or 220 volts AC/DC with Ballast Adapter 1X1456.
- POWER CONSUMPTION**..... 20 watts
- SPEAKER**..... 5 inch round, 3.2-ohm voice coil.
- INTERMEDIATE FREQUENCY**..... 455 KC
- ANTENNA**..... Stick-loop for BC and LW bands, whip for SW bands, and terminals for long wire for use on all bands.



MODEL TW-500C



VALUES AND TOLERANCES SHOWN ARE NOMINAL AND VARIATIONS MAY BE FOUND. IT IS RECOMMENDED THAT THE VALUE OF ANY REPLACEMENT CORRESPOND TO THE NOMINAL VALUE OF THE PART BEING REPLACED.

FREQUENCY COVERAGE

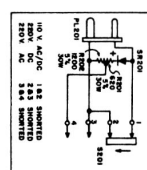
Band	Frequency Range	Reception
1	170 - 415 KC	Longwave
2	535 - 1620 KC	Std. Broadcast
3	2.0 - 6.0 MC	Shortwave
4	6.0 - 18.0 MC	Shortwave

REPLACEMENT BATTERY PACKS

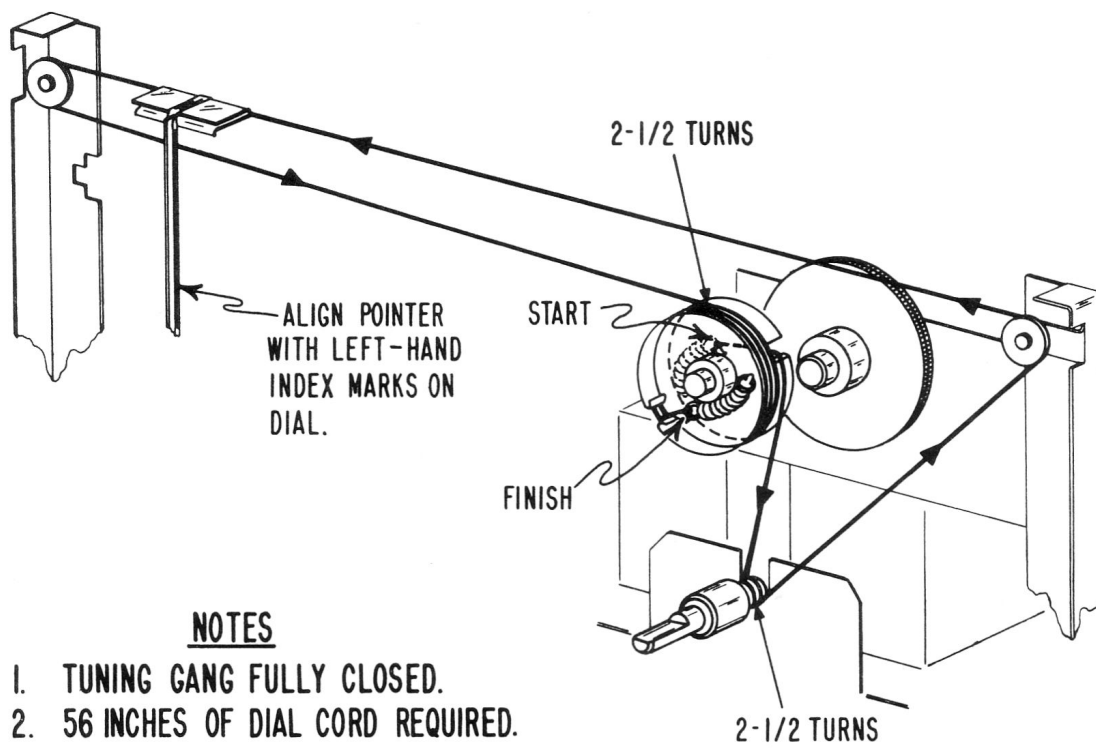
Burgess	Eveready	General	Ray-O-Vac	Philio
76460	753	60466-5	AB794	884

TO REMOVE CHASSIS FROM CABINET

1. Remove the front control knobs by pulling in the outward direction.
2. Disconnect the whip antenna lead at the antenna terminal strip.
3. Remove the 6-32 self-tapping screw at the bottom rear of the cabinet which secures the whip antenna.
4. Remove the whip antenna from the cabinet.
5. Remove the four #10 self-tapping screws at the bottom of the cabinet which secure the chassis.
6. Slide the chassis out through the rear of the cabinet.



891571-A



92C2234

Fig. 1. Dial Stringing Diagram

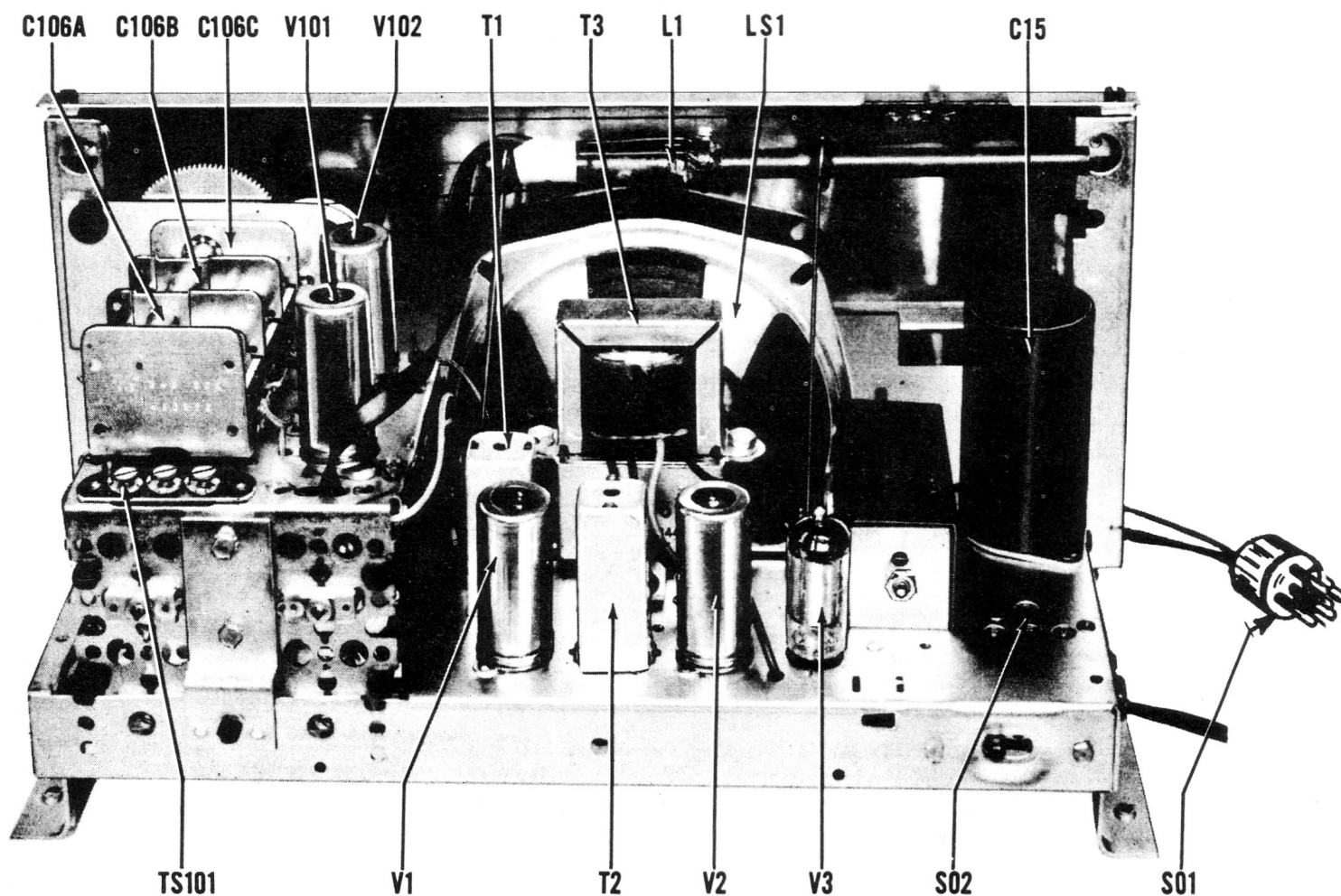


Fig. 2. Top View of Chassis Showing Component Location

92X2236

ALIGNMENT INSTRUCTIONS

- Be sure both the set and the signal generator are thoroughly warmed up before starting alignment.
- Use an accurate signal generator which has a modulated output and covers 455 KC to 14.0 MC.
- Set the volume control at maximum and disconnect the SW whip antenna.
- Use a non-metallic alignment tool with a 3/32"-wide screwdriver blade.
- Connect the output meter across the speaker voice coil.
- To avoid AVC action, use lowest output setting of signal generator which gives satisfactory reading on meter (approx. 50 milliwatts).
- Refer to Figs. 5 and 6 for location of the alignment adjustments.

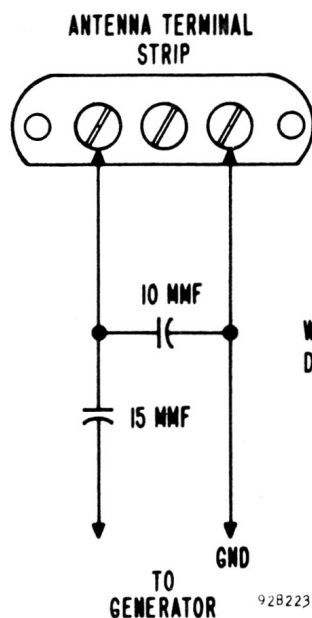


Fig. 3. Dummy Antenna for Band 3

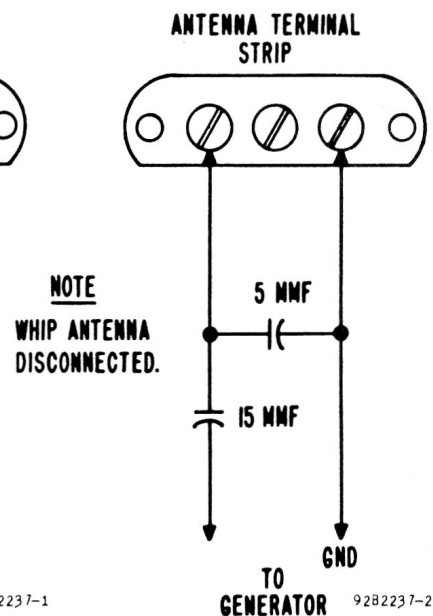


Fig. 4. Dummy Antenna for Band 4

ALIGNMENT PROCEDURE

Step	Signal Generator Connections	Generator Frequency	Band Selector Setting	Receiver Dial Setting	Adjust for Maximum Output
1	High side thru .1 mfd capacitor to stator plates of center section of tuning gang. Low side to chassis.	455 KC	2	1000 KC	A and B (2nd IF) C and D (1st IF)
2	Radiate gen. signal into stick-loop antenna.	360 KC	1	360 KC	E (osc. trimmer), F (mixer trimmer) and G (ant. trimmer)
3	Same as Step 2.	200 KC	1	200 KC	H (osc. slug), I (mixer slug), and J (ant. loading slug)
4	Repeat Step 2.				
5	Same as Step 2.	1400 KC	2	1400 KC	K (osc. trimmer), L (mixer trimmer) and M (ant. trimmer)
6	Same as Step 2.	600 KC	2	600 KC	N (osc. slug), O (mixer slug), and P (ant. loading slug)
7	Connect dummy antenna shown in Fig. 3.	5.0 MC	3	5.0 MC	Q (osc. trimmer), R (mixer trimmer) and S (ant. trimmer)
8	Same as Step 7.	2.2 MC	3	2.2 MC	T (osc. slug), U (mixer slug), and V (ant. slug)
9	Disconnect dummy antenna used for Steps 7 and 8 and connect dummy antenna shown in Fig. 4.	14.0 MC	4	14.0 MC	W (osc. trimmer), X (mixer trimmer) and Y (ant. trimmer)
10	Same as Step 9.	7.0 MC	4	7.0 MC	Z (osc. slug), AA (mixer slug), and AB (ant. slug)

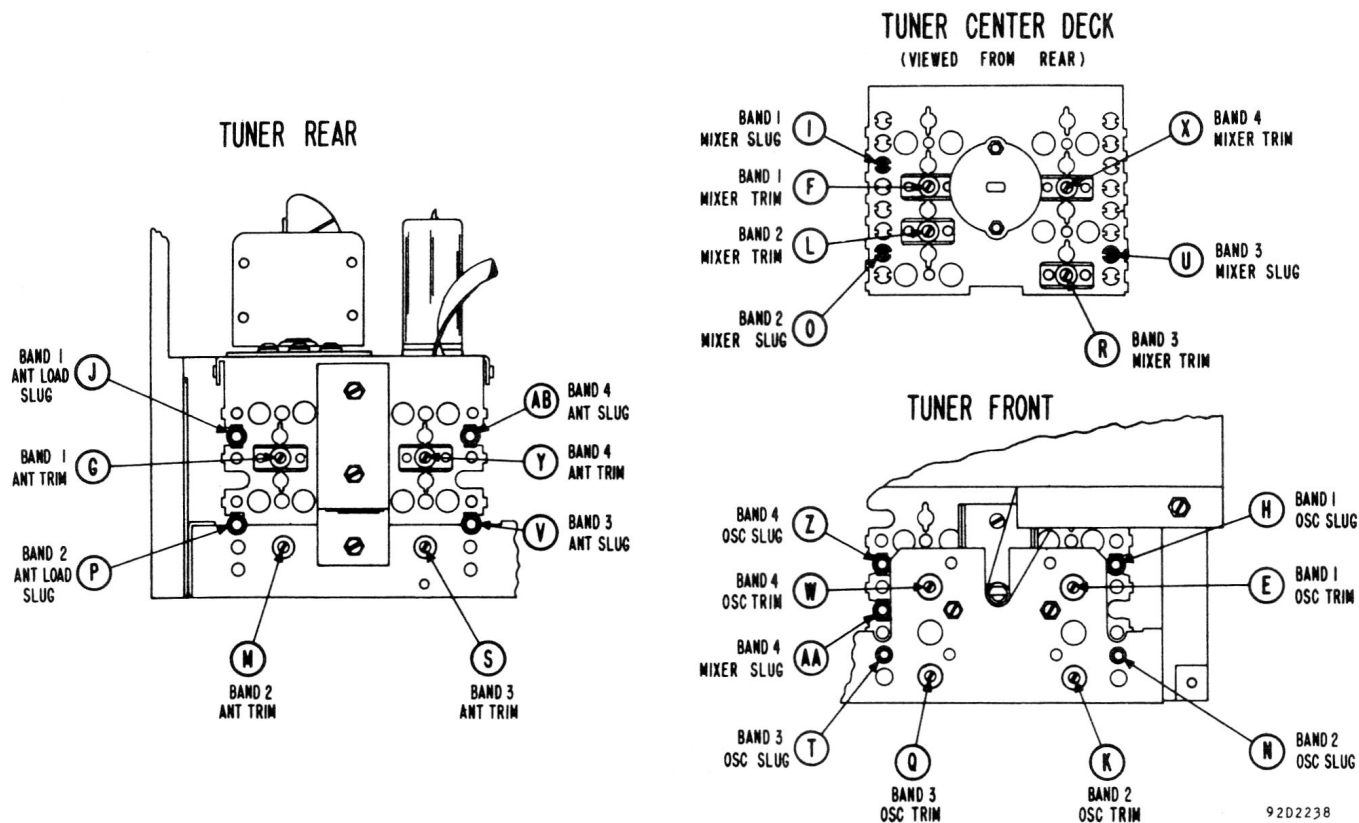


Fig. 5. Tuner Alignment Adjustments

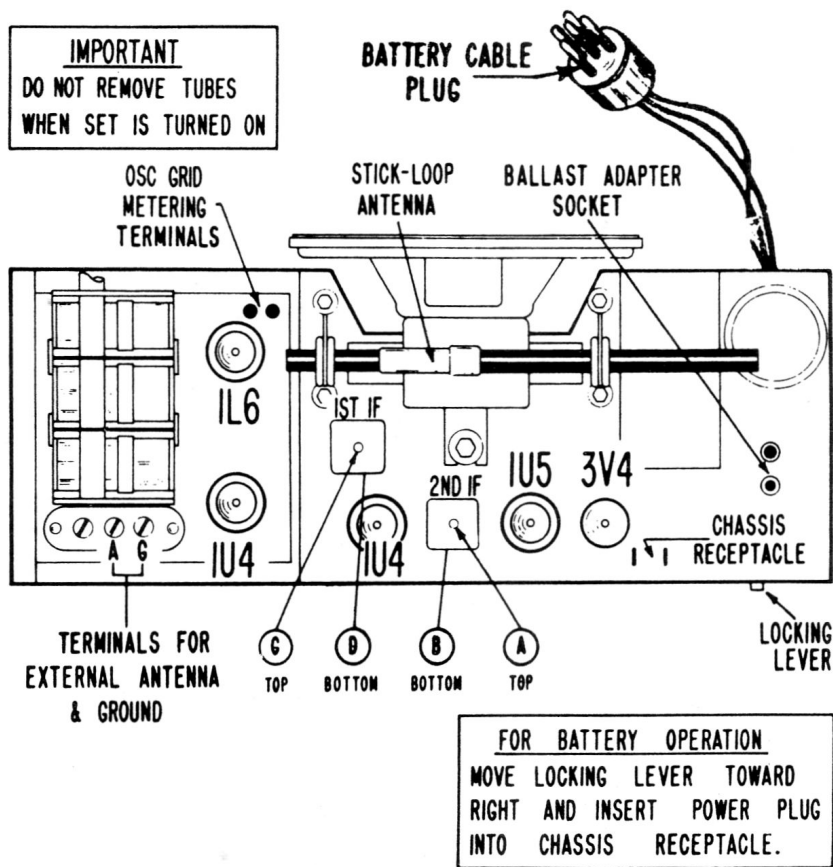


Fig. 6. Top View of Chassis Showing Location of Alignment Adjustments and Tubes

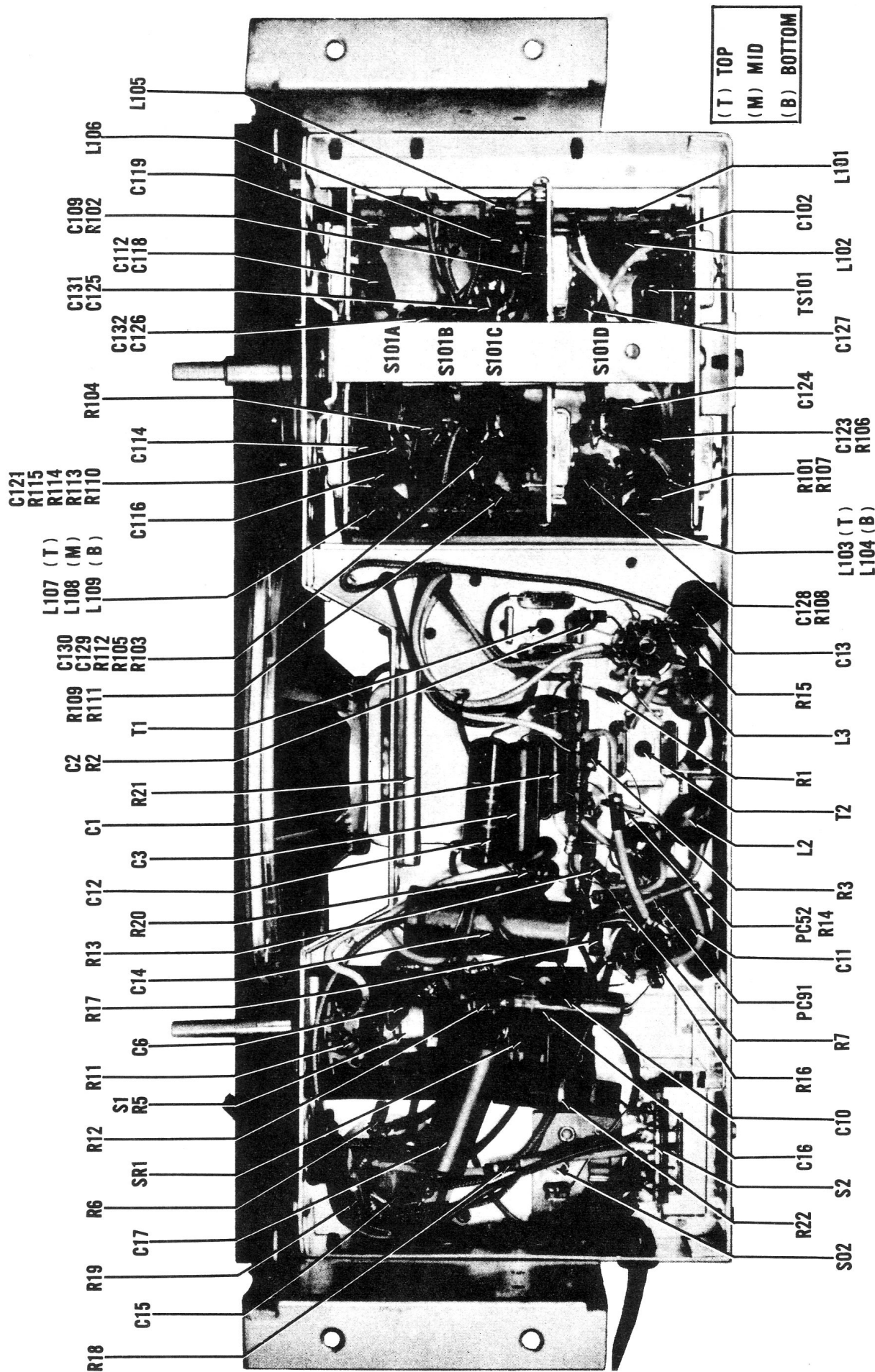


Fig. 7. Bottom View of Chassis Showing Component Location