ZENITH RADIO MODEL "ROYAL 645L"

CHASSIS 6LT45Z2

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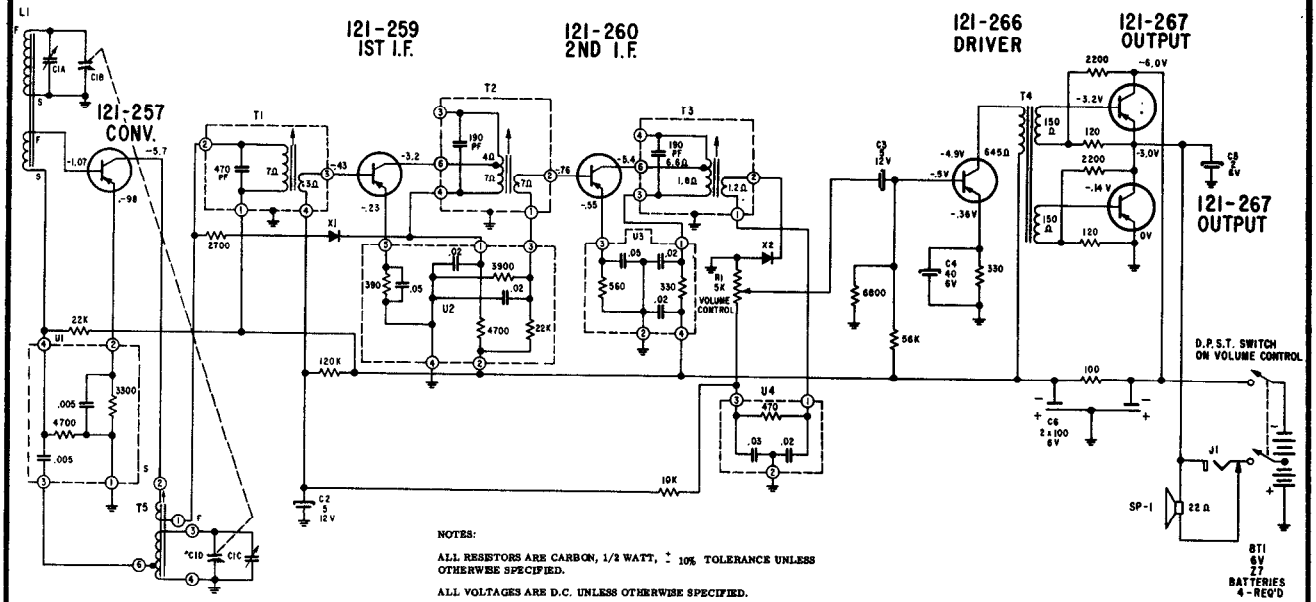


NOTES:

ALL RESISTORS ARE CARBON, 1/2 WATT, ± 10% TOLERANCE UNLESS OTHERWISE SPECIFIED.

ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.

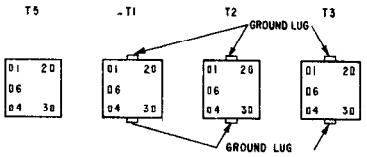
ALL CONDENSERS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

D.C. VOLTAGES SHOWN ARE MEASURED FROM CHASSIS WITH NO SIGNAL USING A VACCUM TUBE VOLTMETER.

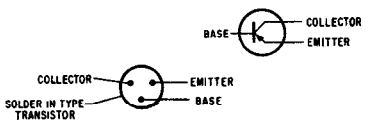
DENOTES CHASSIS ⊥

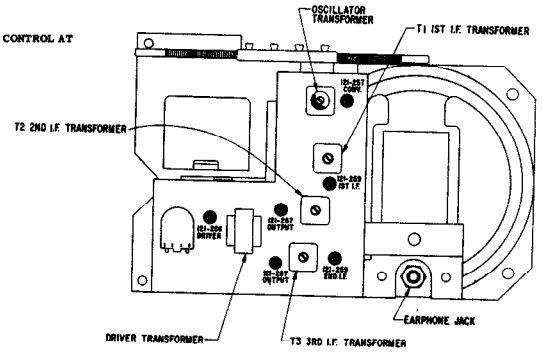
BATTERY CURRENT DRAIN APPROX. 7 MA WITH VOLUME CONTROL AT MINIMUM.

SPEAKER IMPEDANCE 22Ω AT 400 CPS.



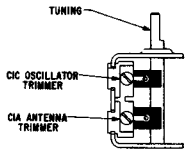
PNP TRANSISTORS





ALIGNMENT PROCEOURE

Operation	Input Signal Frequency	Connect Inner Conductor From Oscillator To	Connect Outer Shield Conductor From Oscillator To	Set Dial At	Trimmers	Purpose
1	455 KC	ONE TURN LOOSELY COUPLED TO WAVEMAGNET	Chassis	600 KC	Adj. T1, T2, T3 for maximum output.	For I.F. Alignment
2	1620 KC		—	Gang wide open.	C1C	Set Oscillator to dial scale.
3	535 KC		—	Gang Closed	Adjust slug in T6	Set Oscillator to dial scale.
4	REPEAT STEPS 2 & 3		—	—	—	—
5	1260 KC		—	1260 KC	C1A	Align loop ant.



TRANSISTOR INFORMATION CHART

Chassis	Part No.	Conv.	1st I.F.	2nd I.F.	Crystal Diode	Driver	Output-Output	Supplier
6LT45Z2	Zenith Type E.I.A.	121-257 PNP 2N1526	121-259 PNP 2N1524	121-260 PNP 2N1524	103-44	121-266 PNP 2N406	121-267 Pair PNP PNP 2N408	R.C.A.

ZENITH RADIO Model Royal 645L, Chassis 6LT45Z2
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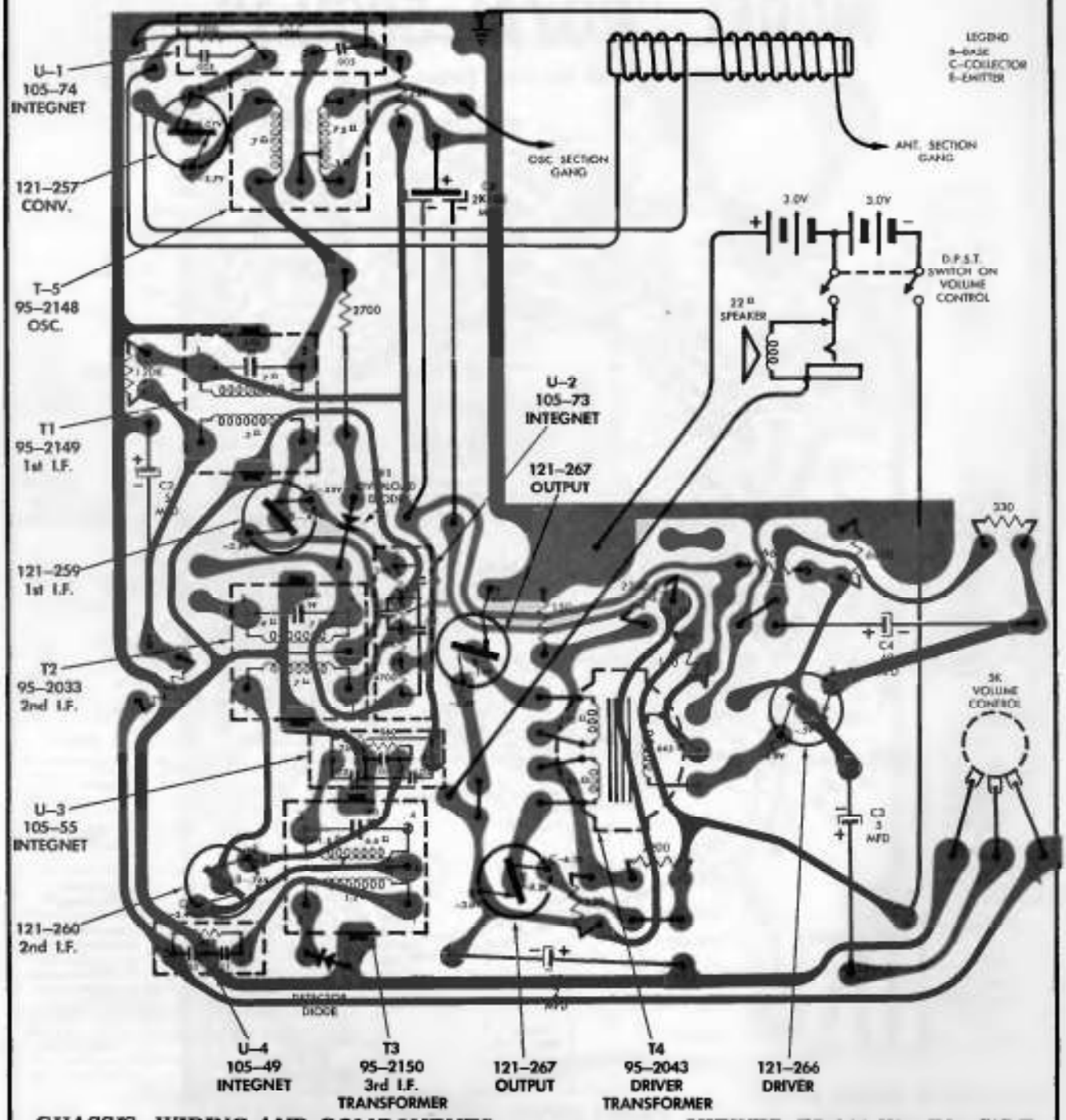

CHASSIS, WIRING AND COMPONENTS — **VIEWED FROM WIRING SIDE**

Resistors and capacitors should be replaced by clipping out the defective part and neatly soldering in the new part. If a unit, such as the oscillator coil or I.F. transformer, is to be removed heat the mounting lugs with a pencil type soldering iron and move them away from the soldered connection with a long-nose pliers or metal pick. Continue heating the lugs and brush away the molten solder with a small stiff glue brush. Remove the defective unit by lifting it off the chassis. Before inserting the new unit, be certain that the lug holes are open and free from solder. Forcing a lug against a solder filled lug hole may break the bond between the chassis base and the printed wiring. It is, therefore, necessary to exercise care when replacing units.