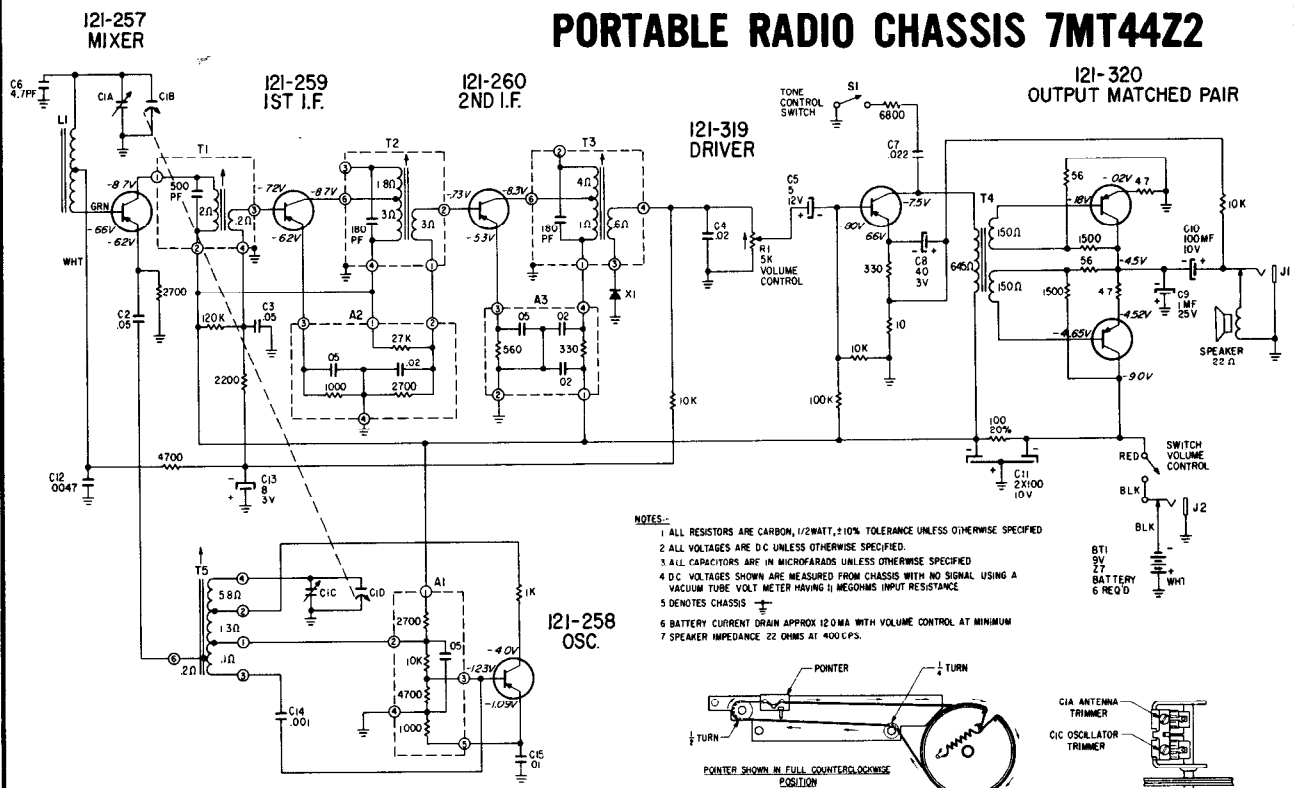
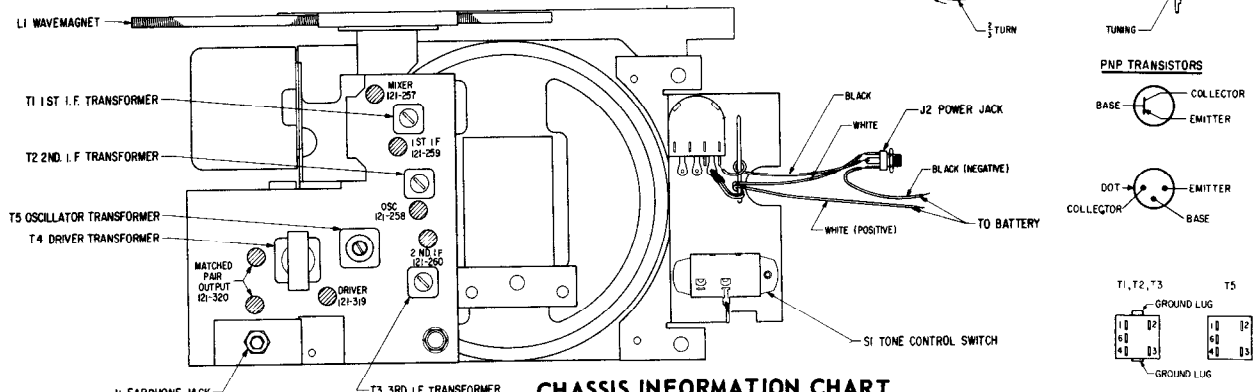
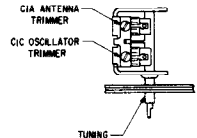
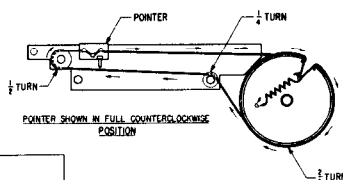


MODEL ROYAL 710M ALL TRANSISTOR PORTABLE RADIO CHASSIS 7MT44Z2



- NOTES:-
- 1 ALL RESISTORS ARE CARBON, 1/2WATT, ±10% TOLERANCE UNLESS OTHERWISE SPECIFIED
 - 2 ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED
 - 3 ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED
 - 4 D.C. VOLTAGES SHOWN ARE MEASURED FROM CHASSIS WITH NO SIGNAL USING A VACUUM TUBE VOLT METER HAVING 11 MEGOHMS INPUT RESISTANCE
 - 5 DENOTES CHASSIS GND
 - 6 BATTERY CURRENT DRAIN APPROX 12.0 MA WITH VOLUME CONTROL AT MINIMUM
 - 7 SPEAKER IMPEDANCE 22 OHMS AT 400 CPS.



CHASSIS INFORMATION CHART

Chassis	Part No.	OSC.	Mixer	1st I.F.	2nd I.F.	Crystal Diode Detector	Driver	Output	Supplier
7MT44Z2	Zenith E.I.A. Type	12I-258 2N1526 PNP	12I-257 2N1524 PNP	12I-259 2N1524 PNP	12I-260 2N1524 PNP	103-44 or 403-1	12I-319 2N408 PNP	12I-320 2N408 Matched Pair PNP	R. C. A.

ALIGNMENT PROCEDURE

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	600 KC			Set dial near 600 KC	Adjust slug in T6	Adjust T6 for maximum output while rocking gang. Adjust for maximum output regardless of dial accuracy.	
4	REPEAT STEPS 2 & 3						
5	1260 KC					1200 KC	C1A