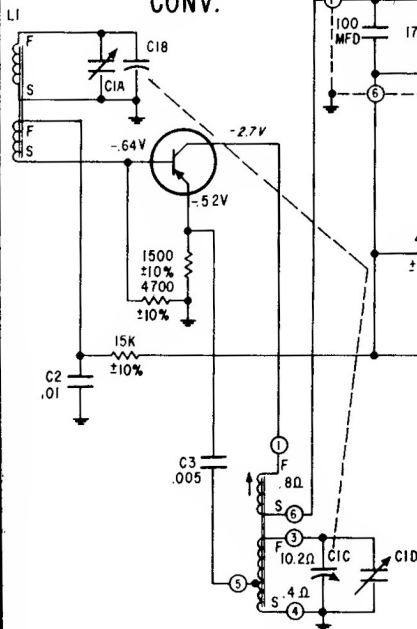


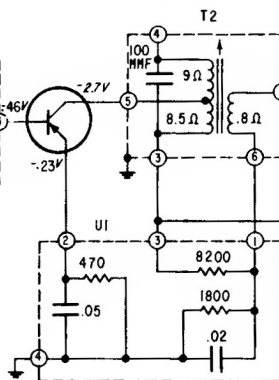
NPN TRANSISTOR



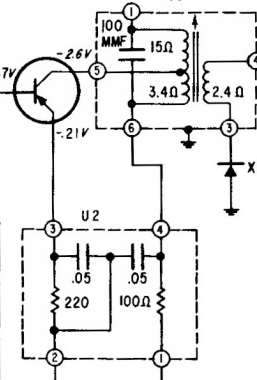
121-234 CONV.



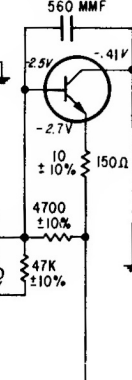
121-235 1ST I.F.



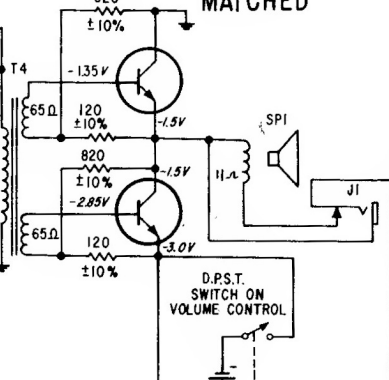
121-236 2ND I.F.



121-237 DRIVER



121-238 OUTPUT MATCHED



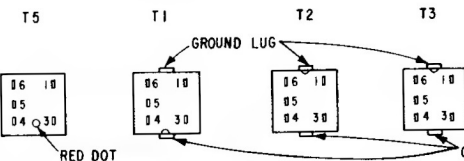
NOTES:

ALL RESISTORS ARE CARBON. 1/2 WATT, ±20% 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 GROUND WITH NO SIGNAL USING A VACUUM TUBE VOLTMETER.

↓ DENOTES GROUND.

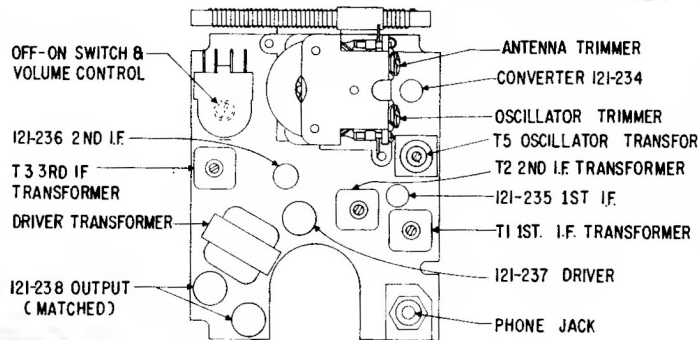
BATTERY CURRENT DRAIN: APPROXIMATELY 12 M.A. WITH VOLUME CONTROL AT MINIMUM.



CHASSIS INFORMATION CHART

Chassis	Transistor Layout Label Color	Part No.	Conv.	1st I.F.	2nd I.F.	Crystal Diode Detector	Driver	Output-Output	Supplier
6KT40Z1	Black 102-9403	Zenith E1A Type	121-234 GC282 PNP	121-235 GC283 PNP	121-236 GC284 PNP	103-44 IN191	121-237 GC286 NPN	121-238 GC285 Matched Pair NPN NPN	Texas Instrument
6KT40Z8	Red 102-9419	Zenith E1A Type	121-244 2N993 PNP	121-242 2N993 PNP	121-243 2N993 PNP	103-44 IN191	121-245 C-1438 PNP	121-246 C-1437 Matched Pair PNP PNP	AMPEREX

CHASSIS 6KT40Z1



TRANSISTOR & TRIMMER LAYOUT FOR CHASSIS 6KT40Z1

ZENITH Model Royal 50L
using Chassis 6KT40Z1

PNP TRANSISTOR



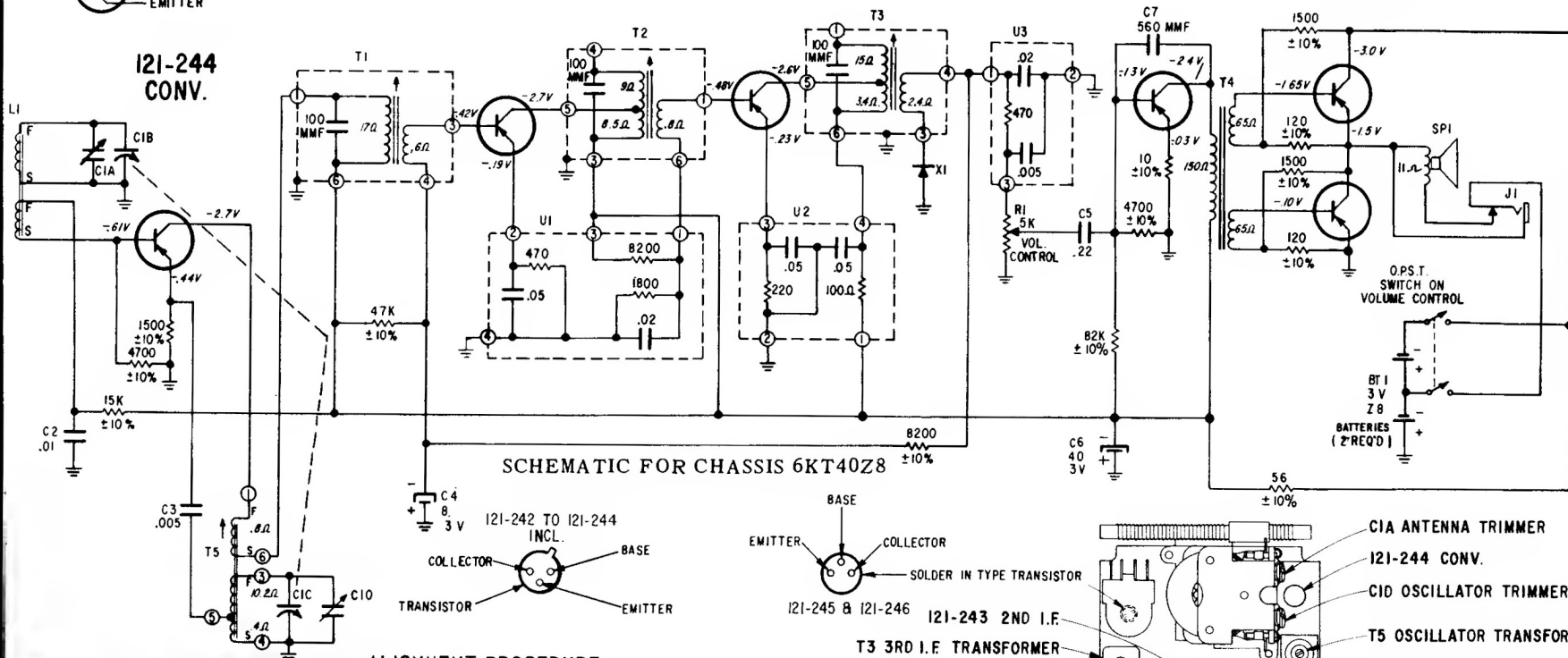
121-242
1ST I.F.

121-243
2ND I.F.

121-245
DRIVER

121-246
OUTPUT
MATCHED

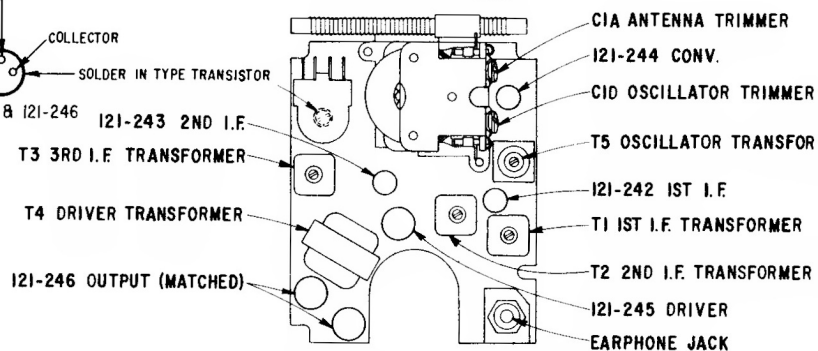
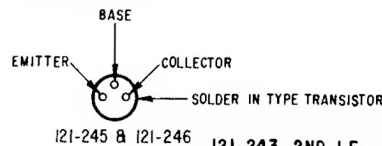
121-244
CONV.



SCHEMATIC FOR CHASSIS 6KT40Z8

ALIGNMENT PROCEDURE

Operation	Input Signal Frequency	Connect Inner Conductor From Oscillator To	Set Dial At	Trimmers	Purpose
1	455 KC	ONE TURN LOOSELY COUPLED TO WAVEMAGNET	600 KC	Adj. T1, T2, T3 for maximum output.	For I.F. Alignment
2	1620 KC		Gang wide open.	C1D	Set Oscillator to dial scale
3	600 KC		Near 600 KC	Adjust slug in T5	While rocking gang, adjust T5 for maximum output regardless of dial accuracy.
4	1260 KC		1260 KC	C1A	Align loop ant.
5	REPEAT STEPS 2 & 3		—	—	—



TRANSISTOR & TRIMMER
LAYOUT FOR CHASSIS 6KT40Z8

ZENITH Model Royal 50L
using Chassis 6KT40Z8