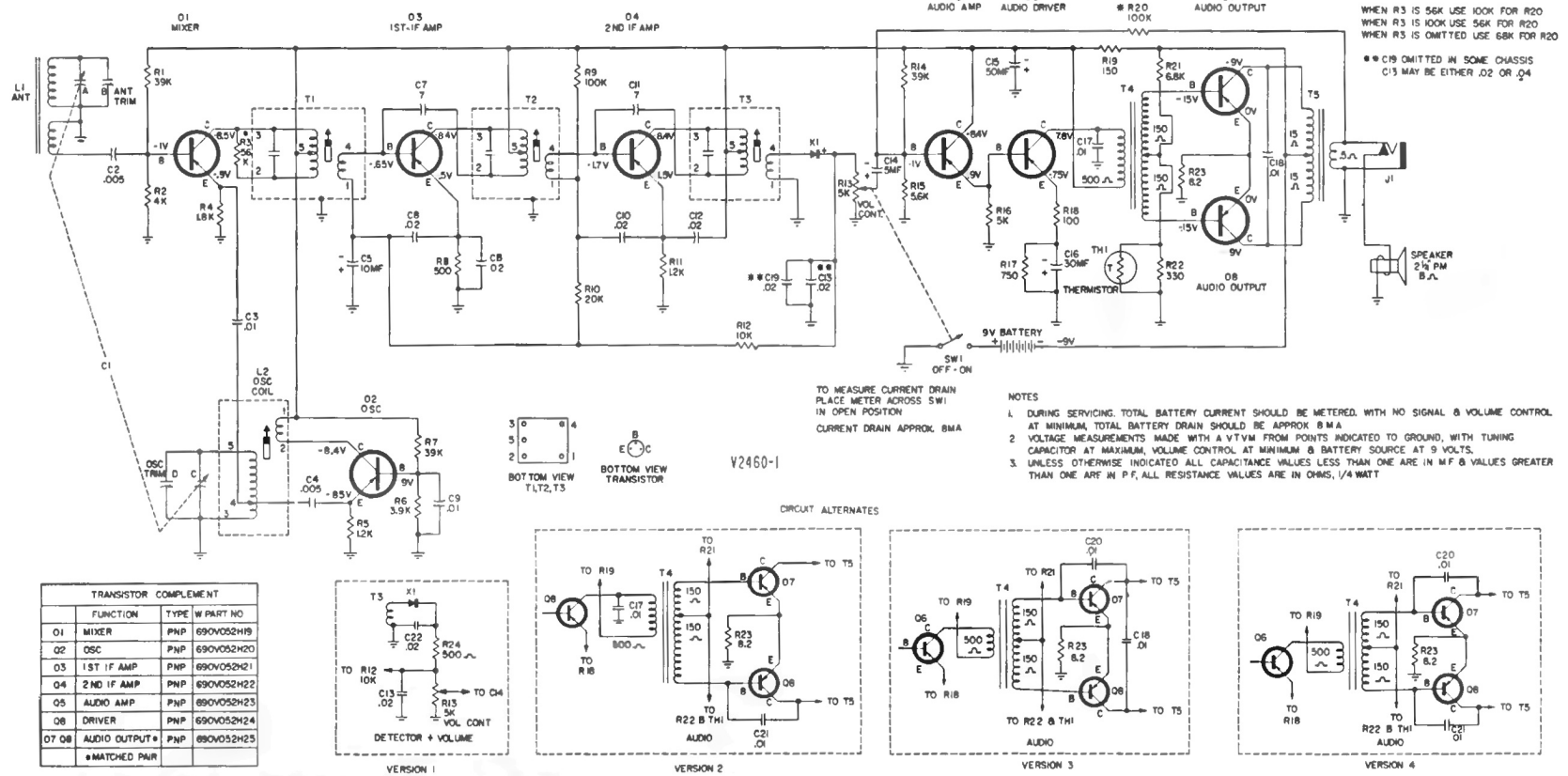


NOTES

1. DURING SERVICING, TOTAL BATTERY CURRENT SHOULD BE METERED, WITH NO SIGNAL & VOLUME CONTROL AT MINIMUM, TOTAL BATTERY DRAIN SHOULD BE APPROX 8 MA
2. VOLTAGE MEASUREMENTS MADE WITH A VTVM FROM POINTS INDICATED TO GROUND, WITH TUNING CAPACITOR AT MAXIMUM, VOLUME CONTROL AT MINIMUM & BATTERY SOURCE AT 9 VOLTS.
3. UNLESS OTHERWISE INDICATED ALL CAPACITANCE VALUES LESS THAN ONE ARE IN M F & VALUES GREATER THAN ONE ARE IN P.F, ALL RESISTANCE VALUES ARE IN OHMS, 1/4 WATT

TRANSISTOR COMPLEMENT			
	FUNCTION	TYPE	W PART NO
01	MIXER	PNP	690V052H19
02	OSC	PNP	690V052H20
03	1ST IF AMP	PNP	690V052H21
04	2ND IF AMP	PNP	690V052H22
05	AUDIO AMP	PNP	690V052H23
06	DRIVER	PNP	690V052H24
07 08	AUDIO OUTPUT*	PNP	690V052H25
	*MATCHED PAIR		

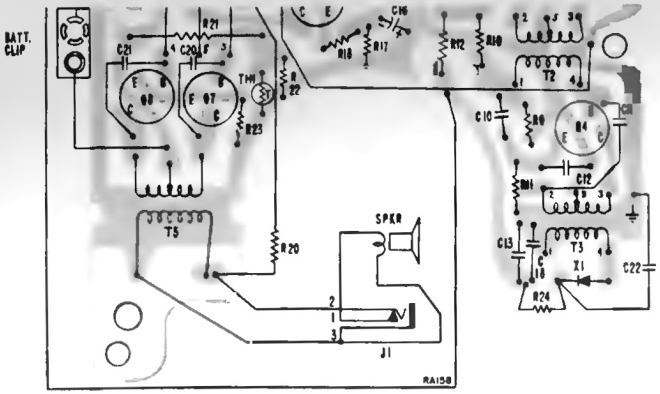
CIRCUIT ALTERNATES

VERSION 1

VERSION 2

VERSION 3

VERSION 4



Alternates 1 & 4

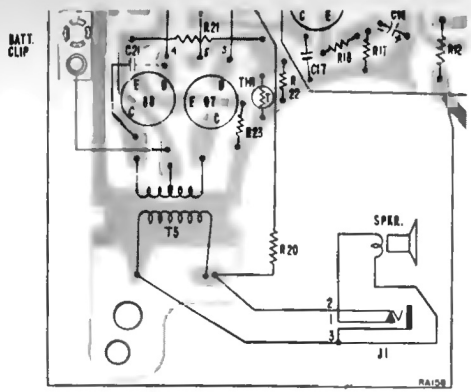


Figure 2B – Alternate 2

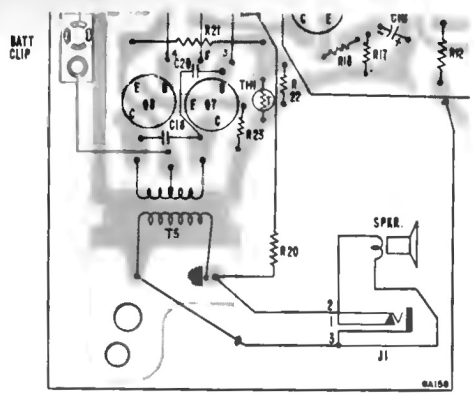


Figure 2C – Alternate 3

Bottom Views of PC Board, Showing Circuit Alternates.

Westinghouse

H-902P6GP

CHASSIS V-2461-1

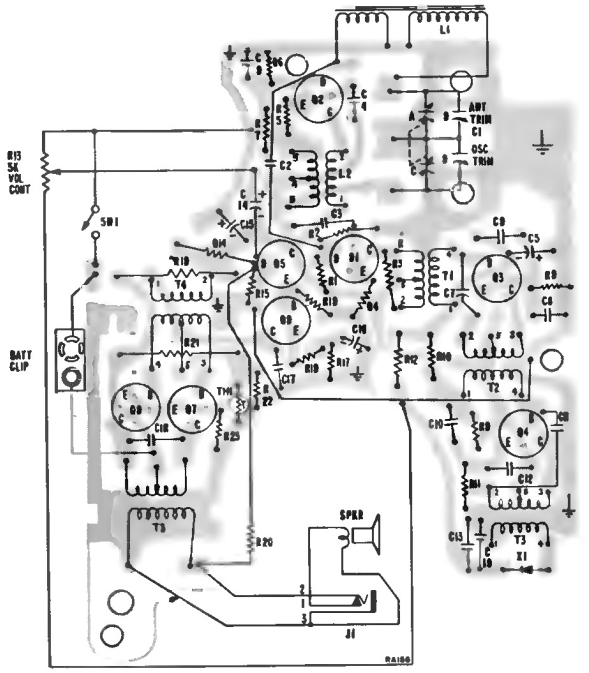
CHASSIS REMOVAL

1. Remove the nut holding the earphone jack.
2. Remove three screws holding the PC board to the cabinet front.
3. Slide the chassis to the rear so that the Volume knob clears the cabinet. The speaker remains in the cabinet.

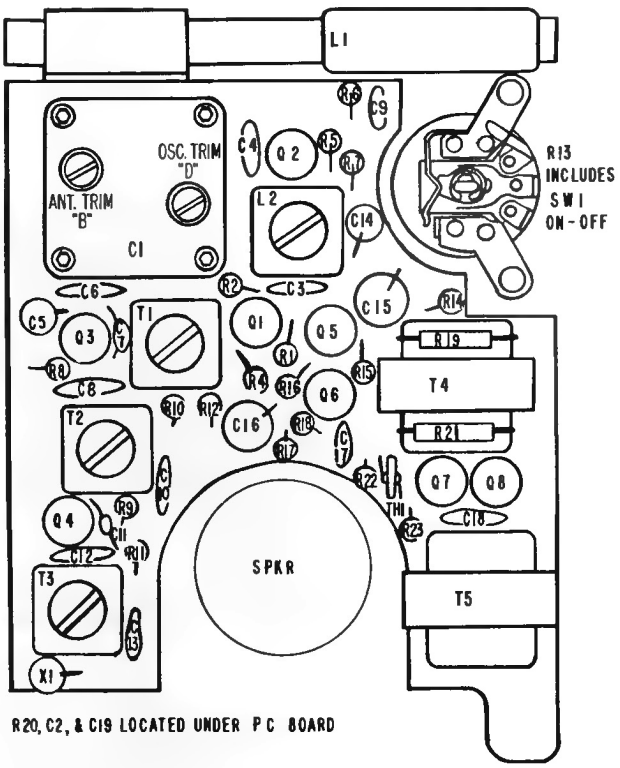
SPEAKER REMOVAL

1. Follow steps 1 thru 3 above.
2. Remove the speaker grille from the front of the cabinet. The grille is held to the cabinet front by metal tabs.
3. When replacing the speaker, the terminals should be at the bottom of the cabinet.

Speaker	2" round, 8 ohm PM
Power Output (undistorted)	.140 watt
(maximum)	.200 watt
Power Supply	(1) 9V battery
No Signal Current Drain	6.6 ma



Bottom View of PC Board, Showing Top Components in Solid Outline.



Top View of PC Board.

ALIGNMENT

SIGNAL GENERATOR — Use a generator providing modulated 455KC and AM broadcast frequencies. Connect a 4 or 5 turn loop of wire across output cable. Place the loop near the ferrite core antenna of the receiver. To increase or decrease the amount of signal coupled to the receiver move the loop closer or further from the antenna. Keep the output of the generator low enough to just give an indication on the VTVM or output meter to avoid AVC action. Keep the volume control set at maximum.

INDICATOR — Connect a VTVM or output meter across the voice coil.

RECEIVER — Set the volume control to maximum. During the last three steps be sure that the hand or any objects on the bench do not come in close contact with the antenna loop or detuning will occur and alignment will be incorrect.

ALIGNMENT TOOL — Use a fiber aligning tool that snugly fits the hex shaped hole in the cores of the IF transformers to prevent chipping.

Step	*Loosely coupled modulated signal to:*	*Generator Frequency*	*C1 Setting*	*Adjust for maximum*
1.	Loop L1	455KC	Minimum	T3, T2 and T1 in order. Reduce generator output if necessary for T2 and T1 adjustments.
2.	Loop L1	1650KC	Minimum	Oscillator trimmer "D"
3.	Loop L1	1400KC	1400KC	Ant. trimmer "B"
4.	Loop L1	600KC	600KC	Oscillator coil, L2, if necessary.
5.	Repeat steps 2, 3 & 4.			