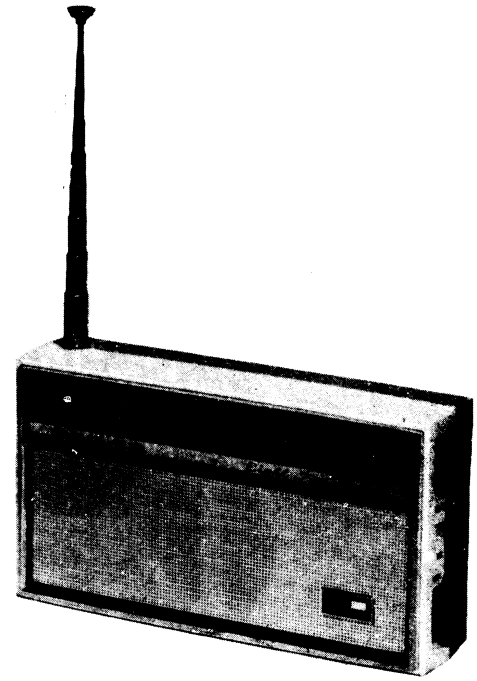
CIRCUIT - Eight transistor superheterodyne
CABINET - Plastic with polished chrome plated diecast front
FREQUENCY COVERAGE BC 535 to 1620 KC,
SW 5.8 to 18 MC
INTERMEDIATE FREQUENCY - 455 KC
ANTENNA Built in ferrite core antenna and telescopic rod antenna
SPEAKER 2-1/4" dia PM. 8. ohm Voicecoil impedance Jack provided for Private Listening attachment
BATTERY SUPPLY Four Penlite cells



Alignment Procedure

General - Allow the test equipment to warm up for fifteen minutes before starting the alignment procedure

Output indicator - Connect the output indicator (a 1000ohm per-Volt, A-C voltmeter, or an oscillo scope) across the phone Jack

Out put Level

When signal tracing inject signal at transistor collector and Limit input to keep signal across speakar below 1. 6Volt

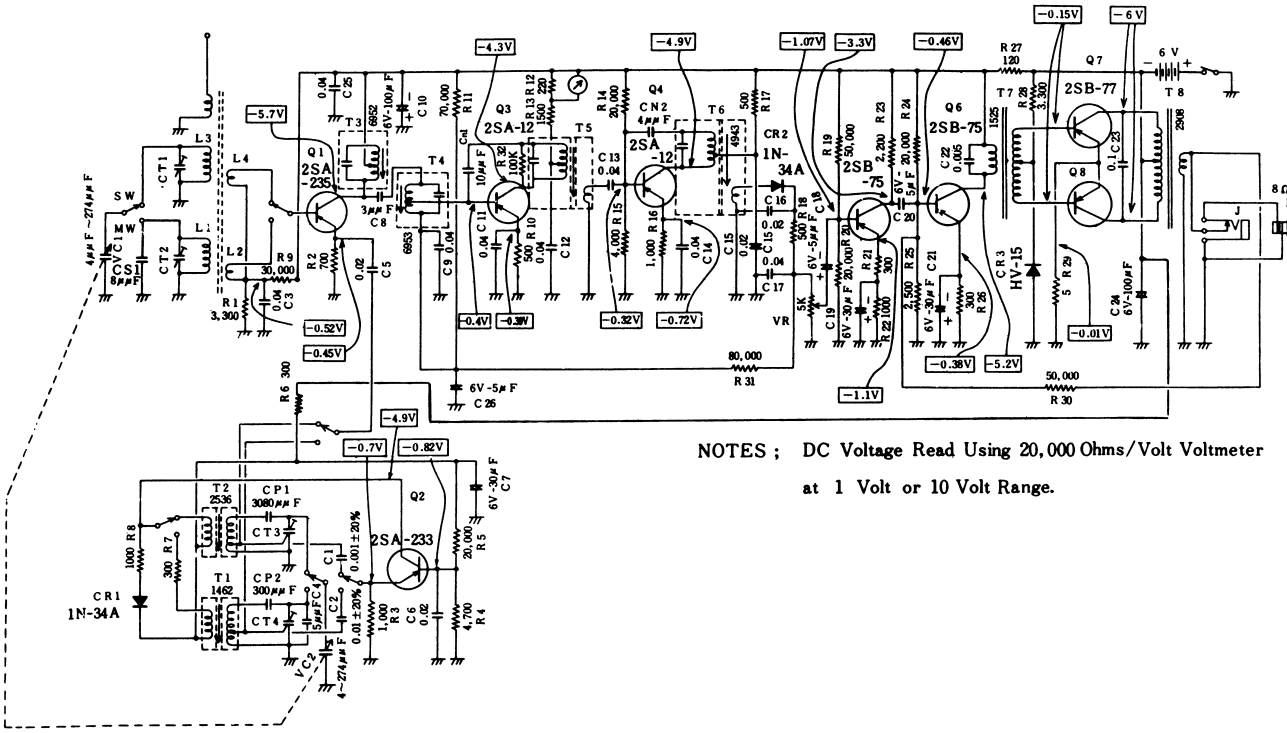
Signal Generator - Use an AM RF signal generator, Connect tho ground lead to chassis, and connect the output lead as indicated in the alignment chart

Radio Controls - Set the Volume control to maximum. Set the tuning control as indicated in the alignment chart. During alignment of the radio the batteries should be in the same position with respect to the chassis and the antenna core as they normally are in the cabinet.

ALIGNMENT CHART

Step	Signal Generator		Radio		
	Connection to Radio	Dial Setting	Dial Setting	Special Instructions	Adjust
1	Connect signal generator through a.1 uf. condenser to ANT. section of gang	455 kc	Tuning gang fully open.	Adjust for maximum output in order given.	4943-3rd IF 4955-2nd IF 6953 6952 -1st IF
2	Use radiating loop. (See NOTE 1 below)	535 kc 1600 kc	535 kc 1600 kc	Adjust for maximum output and repeat adjustment 3 times at both Frequencies of 535 kc and 1600 kc to obtain correct frequency range.	1462 Coil core CT4 Trimmer
3	Same as Step 2.	600 kc 1400 kc	600 kc 1400 kc	Tracking ; Fix tracking point at 600 kc by sliding The antenna coil over the ferrite core until 600kc is perfectly aligned 1400 kc is tracked by adjusting the antenna trimmer CT2 on the gang condenser for maximum output.	ferrit core coil CT2 Trimmer
4	Same as Step 2.	5.8 mc 18 mc	5. 8 mc 18 mc	Adjust for maximum output and repeat this adjust ment 3 times at both frequencies of 5. 8 mc and 18 mc to obtain correct frequency range.	2536 Coil core CT3 Trimmer
5	Same as Step 2.	5. 8 mc 18 mc	5. 8 mc 18 mc	Tracking ; Fix tracking point at 5.8 mc by sliding the antenna coil over the ferrite core until 5. 8 mc is perfectly aligned 18 mc is tracked by adjusting the antenna trimmer CT1 on the gang condenser for maximum output	ferrit core Coil CT1 Trimmer

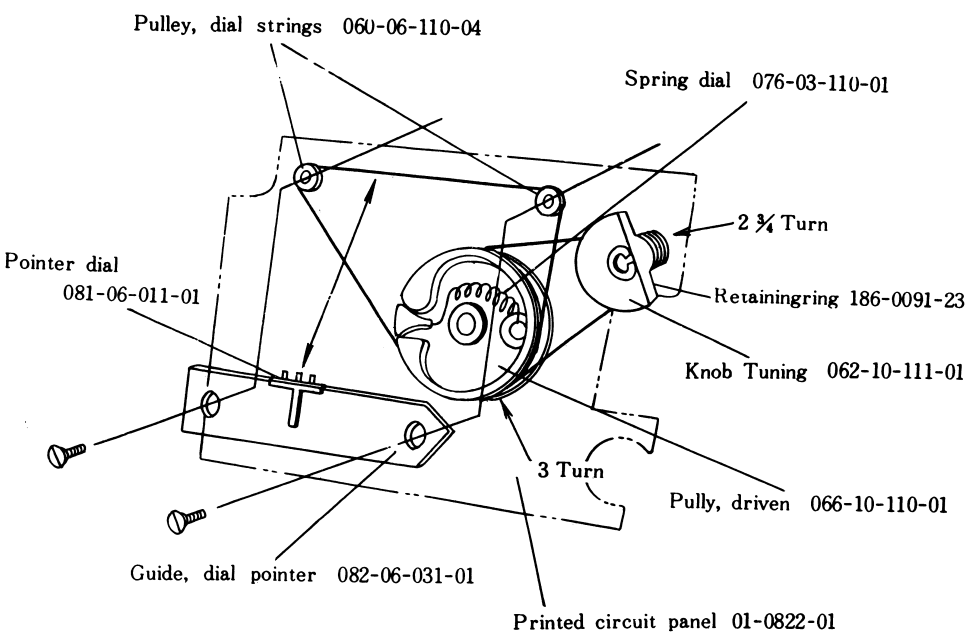
NOTE: I Use a 6-to-8 turn 6 inch diameter loop made up of insulated wire, Connect to generator terminals, and place about one foot from radio loop.



NOTES ; DC Voltage Read Using 20,000 Ohms/Volt Voltmeter at 1 Volt or 10 Volt Range.

Band selector switch Lug Identification as shown as figure 2

Lug	# 1	Lead "L 1,, from SW Padding Capacitor	Yellow	//	#11	Lead "L11,, from C5	White
//	# 2	Lead "L 2,, from Tuning gang Capacitor	Blue	//	#12	Lead "L12,, from T1 #1462	Emerald Green
//	# 3	Lead "L 3,, ftom MW Padding Capacitor	Green				
//	# 4	Lead "L 4,, from T2 #2536	Red	//	#13	Lead "L10,, from Trimmer CT1	Yellow
//	# 5	Lead "L 5,, from 2SA-233 Collector	White	//	#14	Lead "L11,, from tuning gang capacitor	Green
//	# 6	Lead "L 6,, from Resistor R7	Yellow	//	#15	Lead "L12,, from trimmer CT2	White
//	# 7	Lead "L 7,, from Capacitor C1	Green	//	#16	Lead "L13,, from ferrite core coil	Yellow
//	# 8	Lead "L 8,, from 2SA-233 Emitter	Black	//	#17	Lead "L14,, from 2SA-80 Base	Blue
//	# 9	Lead "L 9,, from Capacitor C2	Blue	//	#18	Lead "L15,, from ferrite core coil	Yellow
//	#10	Lead "L10,, from T2 #2536	Violet				



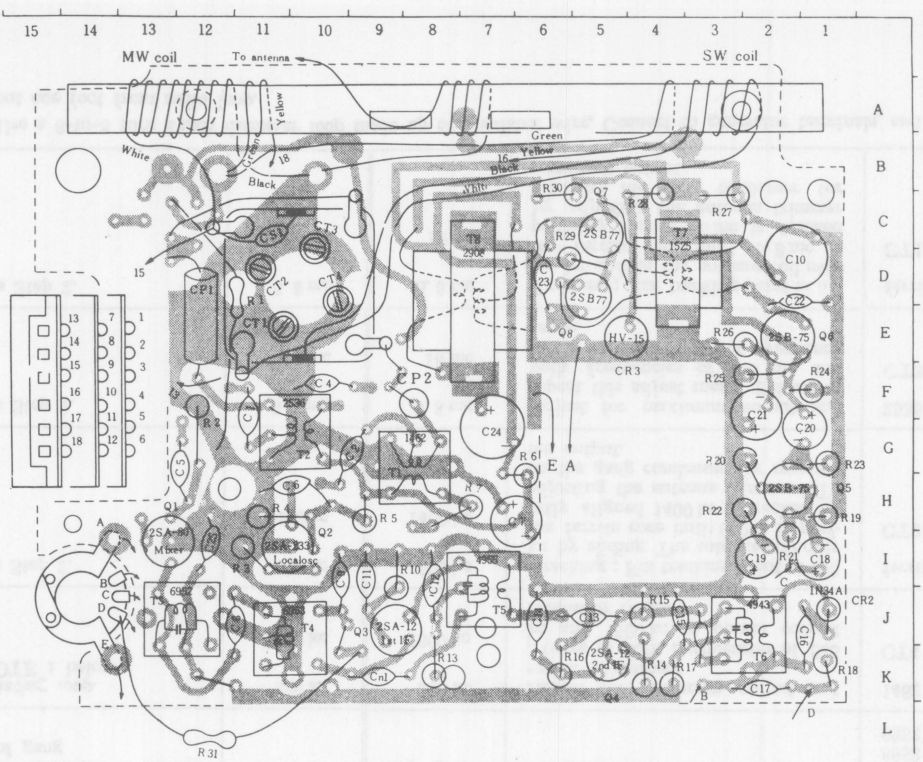


Figure 1 Component Top View—Showing Parts Location

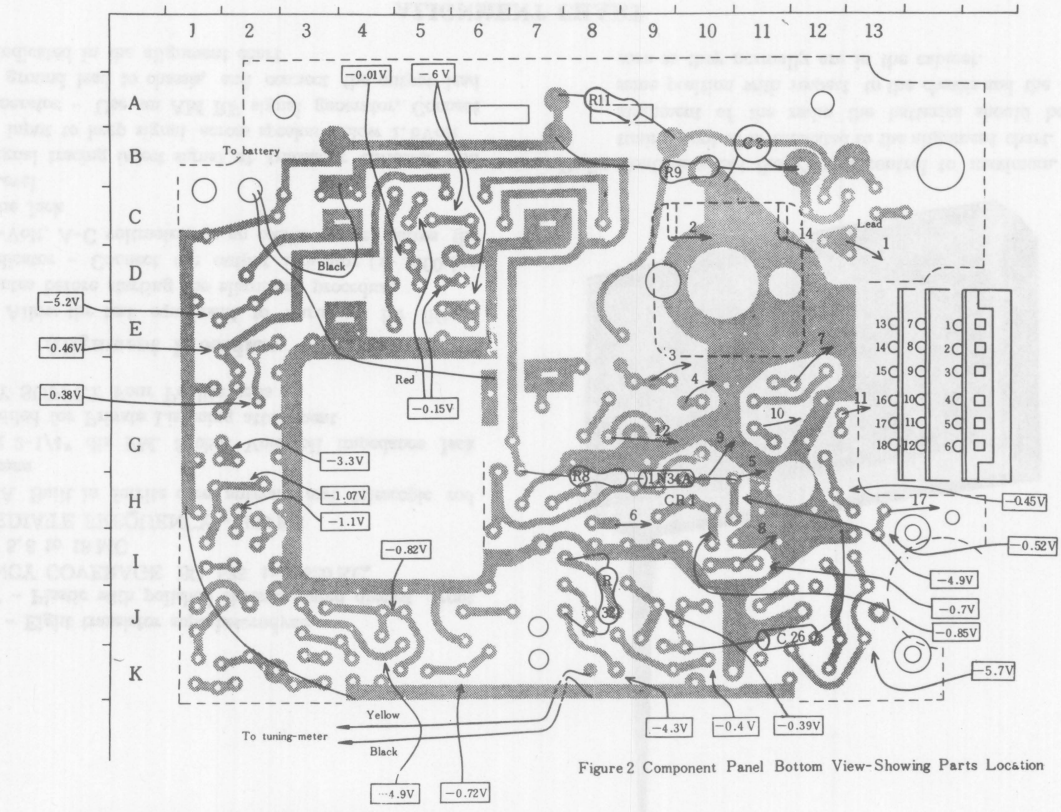


Figure 2 Component Panel Bottom View-Showing Parts Location

NOTES; DC Voltage Read Using 20,000 Orms / Volt Voltmeter at 1Volt or 10Volt Range.

Philco T-8J22.

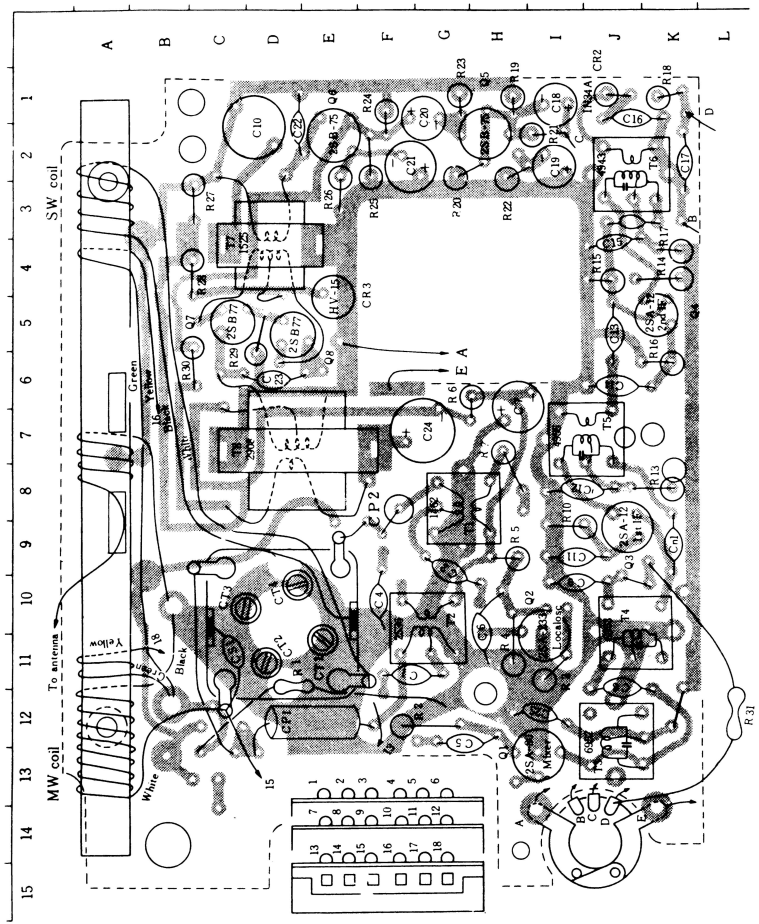


Figure 1 Component Top View—Showing Parts Location

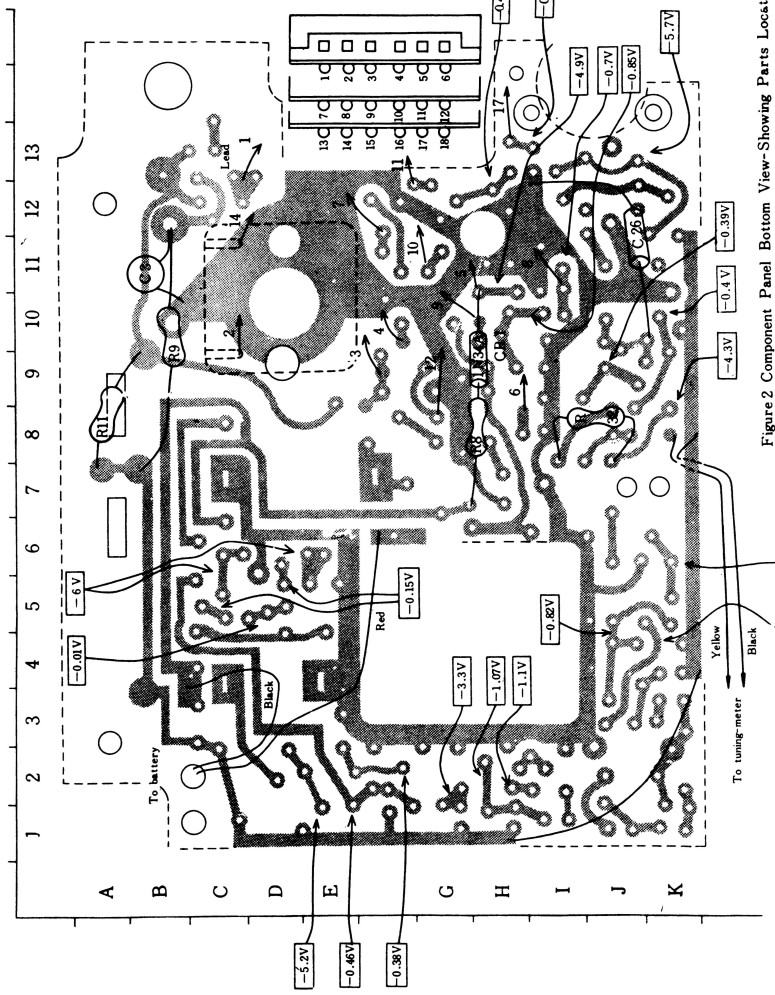


Figure 2 Component Panel Bottom View-Showing Parts Location

NOTES; DC Voltage Read Using 20,000 Orms/Volt Voltmeter at 1Volt or 10Volt Range.