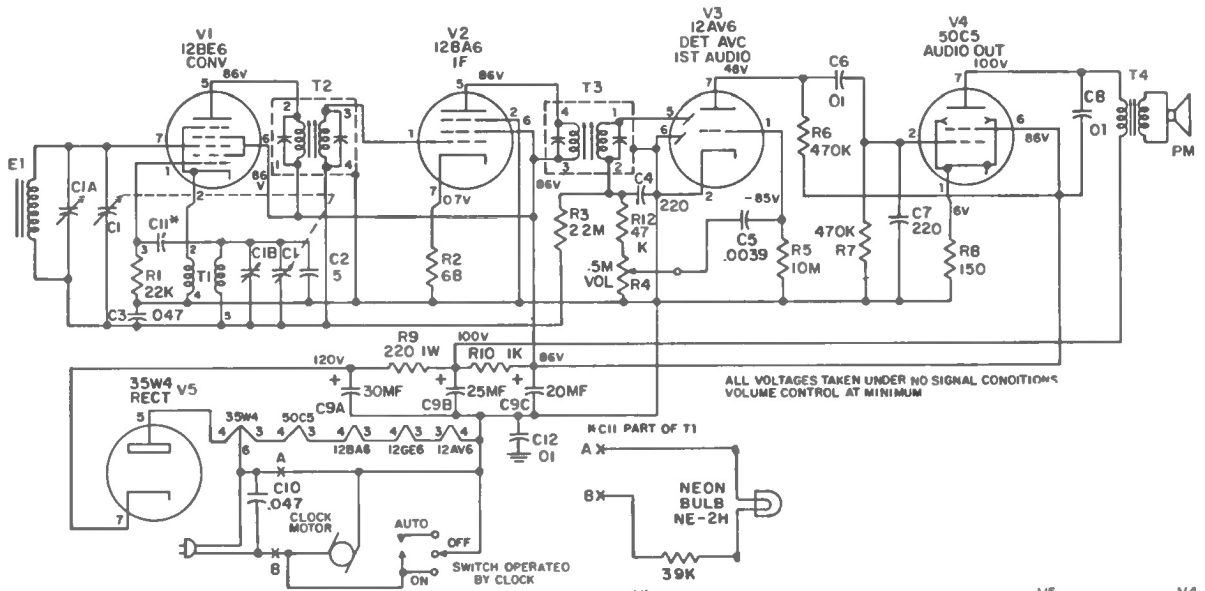
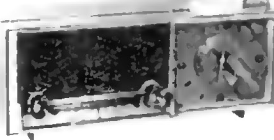


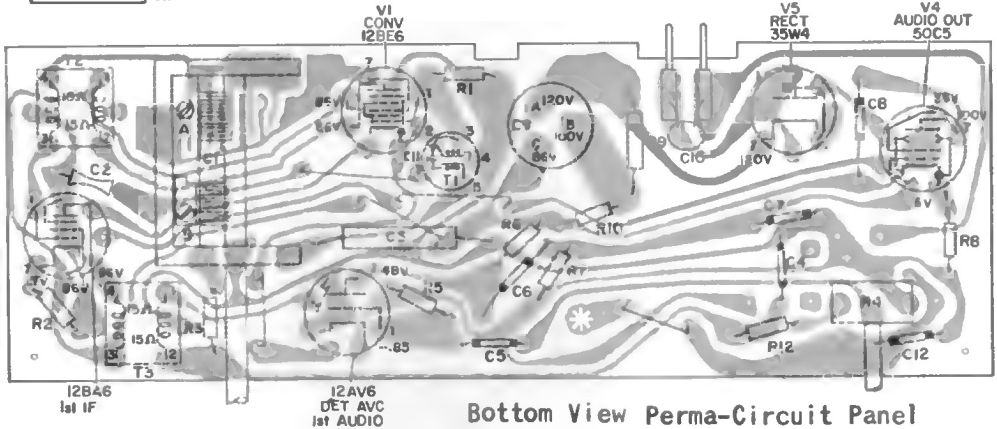
PHILCO Models N-725 and N-727



N-725



N-727



Bottom View Perma-Circuit Panel

SYM-BOL	LOCA-TION	DESCRIPTION	SERVICE PART NO.
C1	C2	Capacitor, variable tuning	
C2	B2	Capacitor, 5 pf, temp. comp.	30-1287-1
C3	E3	Capacitor, .047 mf, AVC	30-4650-45
C4	L4	Capacitor, 220 pf, diode filter	30-1283-25
C5	G5	Capacitor, .0039 mf, 1st audio	30-1283-64
C6	G4	Capacitor, .01 mf, out. grid	30-1283-69
C7	L3	Capacitor, 220 pf, out. grid	30-1283-25
C8	M1	Capacitor, .01 mf, out. plate	30-1283-69
C9	H2	Capacitor, electrolytic 30/25/20	30-2585-11
C10	J2	Capacitor, .047 line bypass	30-4650-45
C11	F2	Part of T1	*
C12	M5	Capacitor, .01 mf, B- to gnd.	30-1283-69

SYM-BOL	LOCA-TION	DESCRIPTION	SERVICE PART NO.
R1	F1	Resistor, 22K ohms, osc. grid	
R2	A4	Resistor, 68 ohms, I-F cathode	
R3	C4	Resistor, 2.2M ohms, AVC	
R4	M4	Control, volume	
R5	F4	Resistor, 10M ohms, 1st audio grid	
R6	G3	Resistor, 470K, 1st audio plate	
R7	H4	Resistor, 470K, 1st output grid	
R8	N3	Resistor, 150 ohms, output cathode	
R9	J2	Resistor, 220 ohms, 1W, B+ filter	
T1	H1	Transformer, oscillator	32-4756-1
Z1	B1	Transformer, 1st I-F	32-4583-23
Z2	B4	Transformer, 2nd I-F	32-4583-23

ALIGNMENT

Connect an a-c voltmeter or oscilloscope across speaker voice coil. Connect ground lead of the AM R-F signal generator to chassis output lead as indicated in chart. Keep voltage across voice coil below .5 volt (reduce generator output). Set volume control to maximum, tuning control as indicated in chart. During alignment keep antenna and chassis in same relative position as they are in cabinet.

SIGNAL GENERATOR			RADIO		
STEP	CONNECTION TO RADIO	DIAL SETTING	DIAL SETTING	SPECIAL INSTRUCTIONS	ADJUST
1	Ground lead to B-; output lead through a .1 mf condenser to grid (pin 7) of 12BE6 or top of r-f tuning condenser.	455KC	Tuning gang fully open.	Adjust tuning cores, in order given, for maximum output.	Z2 - top Z2 - bottom Z1 - bottom Z1 - top
2	Radiating loop (See note below).	1620KC	1620KC	Adjust for maximum output.	C1-B - osc.
3	Same as Step 2.	1500KC	1500KC	Adjust for maximum output.	C1-A - aerial

NOTE: Make up a 6-8 turn, 6 inch diameter loop from insulated wire, connect to signal-generator leads, and place near radio loop. For proper adjustment of the oscillator trimmer, fully open the tuning gang and insert a .006 inch non-metallic shim between the heel of the rotor and the top of the stator plates. Close the tuning gang sufficiently to hold the shim in place, and then remove the shim without disturbing the gang setting.