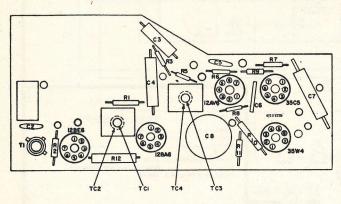
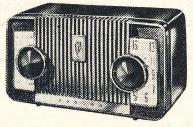
# PHILCO HOME RADIO MODELS 181 and 182



## HOME RADIO



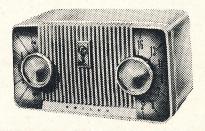
BASE VIEW - MODELS 181 and 182



PHILCO MODEL 181

### ALIGNMENT PROCEDURE

- RADIO CONTROLS Set volume control to maximum. Set tuning control as indicated in chart.
- OUTPUT METER Connect across voicecoil terminals.
- SIGNAL GENERATOR Connect generator and set frequency as indicated in chart. Use modulated output.
- OUTPUT LEVEL During alignment, adjust signal-generator output to hold output-meter reading below .5 volts.



PHILCO MODEL 182

#### ALIGNMENT CHART

STEP	SIGNAL GENERATOR		RADIO		
	CONNECTION TO RADIO	DIAL	DIAL SETTING	SPECIAL INSTRUCTIONS	ADJUST
1	Ground lead to B—; output lead through a .1-mf. condenser to grid (pin 7) of 12BE6.	460 KC	Tuning gang fully open	Adjust tuning cores, in order given, for maximum output. TC1 and TC3 are located at top of transformers.	TC4—2nd i-f sec. TC3—2nd i-f pri. TC2—1st i-f sec. TC1—1st i-f pri.
2	Radiating loop (See note below).	1620 KC	1620 KC *	Adjust trimmer for maximum output.	C1-B — osc.
3	Same as step 2.	1500 KC	1500 KC	Adjust trimmer for maximum output.	Cl-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.

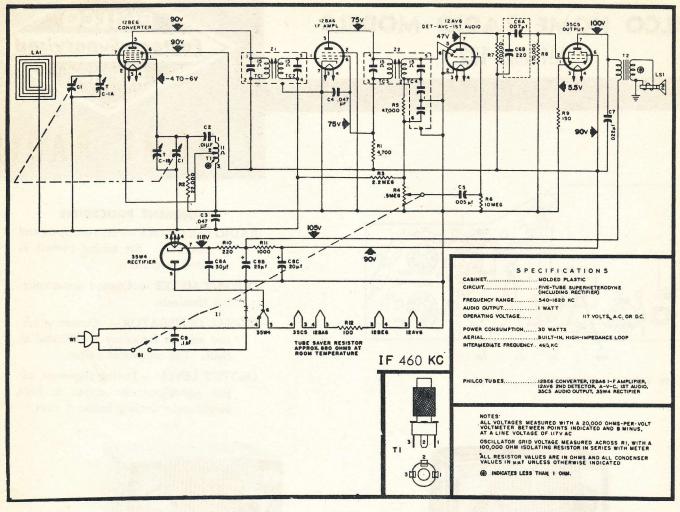
For proper adjustment of the oscillator trimmer, fully open the tuning gang and insert a .006 inch non-metallic shim between the heel of the rotor and the top of the stator plates. Close the tuning gang sufficiently to hold the shim in place, and then remove the shim without disturbing the gang setting.







927 BEGANE BLVD. - TEL RI. 7-5403



Schematic Diagram, Models 181 and 182

#### REPLACEMENT PARTS LIST FOR PHILCO MODELS 181 AND 182

Ref.		Service	MISCELLANEOUS	
Sym.	Description	Part No.	Ref.	Service
Ci	Condenser, Tuning Condenser, Oscillator grid, .01 mf	31-2735-5	Sym. Description	Part No.
C2 C3	Condenser, A-V-C by-pass, .047 mf	30-4650-45	Cabinet 181	*****
C4 C5	Condenser, Screen by-pass, .047 mf Condenser, Audio coupling, .005 mf	30-1238-14	Brown Knob-Volume & Tuning	54-6147-6
C6 C6A	Condenser, Dual ceramic Condenser, Plate by-pass, 220 mmf	Part of C6	Dial Bezel Bezel Volume	28-10315 28-10315-1
C7	Condenser, d-c blocking, .007 mf Condenser, Tone compensation	30-4650-43	Cabinet 182 Ivory	11074-3
C8 C8A	Condenser Electrolytic, filter Condenser	Part of C8	Knoh-Volume & Tuning Scale Dial	28-10378
C8C C8B	Condenser Condenser Condenser, Line by-pass, .1 mf	Part of C8	Scale Volume Cabinet 182	
C9 LÄ1	Loop antenna,		Cabinet 182 Spruce Green Knob-Volume & Tuning	
LS1 R1 R2 R3		OPT 36-1654-2 ½ watt ½ watt ½ watt	Cabinet 182 Cardinal Knob-Volume & Tuning	11074-4
R4 R5 R6 R7 R8	Resistor, Diode filter, 47,000 ohms Resistor, Grid return, 10 megohms Resistor, Plate load, 470,000 ohms Resistor, Grid return, 470,000 ohms	½ watt ½ watt ½ watt ½ watt ½ watt ½ watt	name patricinal and the control of the second secon	
R9 R10 R11 R12	Resistor, Cathode bias, 150 ohms Resistor, Filter, 220 ohms, 1 watt Resistor, Filter, 1000 ohms Resistor, tube saver, filament dropping, 100 ohms	½ watt	Tube Shield Tube socket, 12AV6	56-5629-12 27-6296-4
	100 ohms	33-1343-3	Tube socket, 12BA6 Tube socket, 35C5, 12BE6 35W4	
T1 T2 W1	Transformer, oscillator Transformer, output Line Cord,	12-0129 41-3865	Washer-Knob Holding Nuts Scale MTG 182	W-2556-7
Z1 Z2	Transformer, 1st IF Transformer, 2nd IF	32-4583-3 32-4584-1		