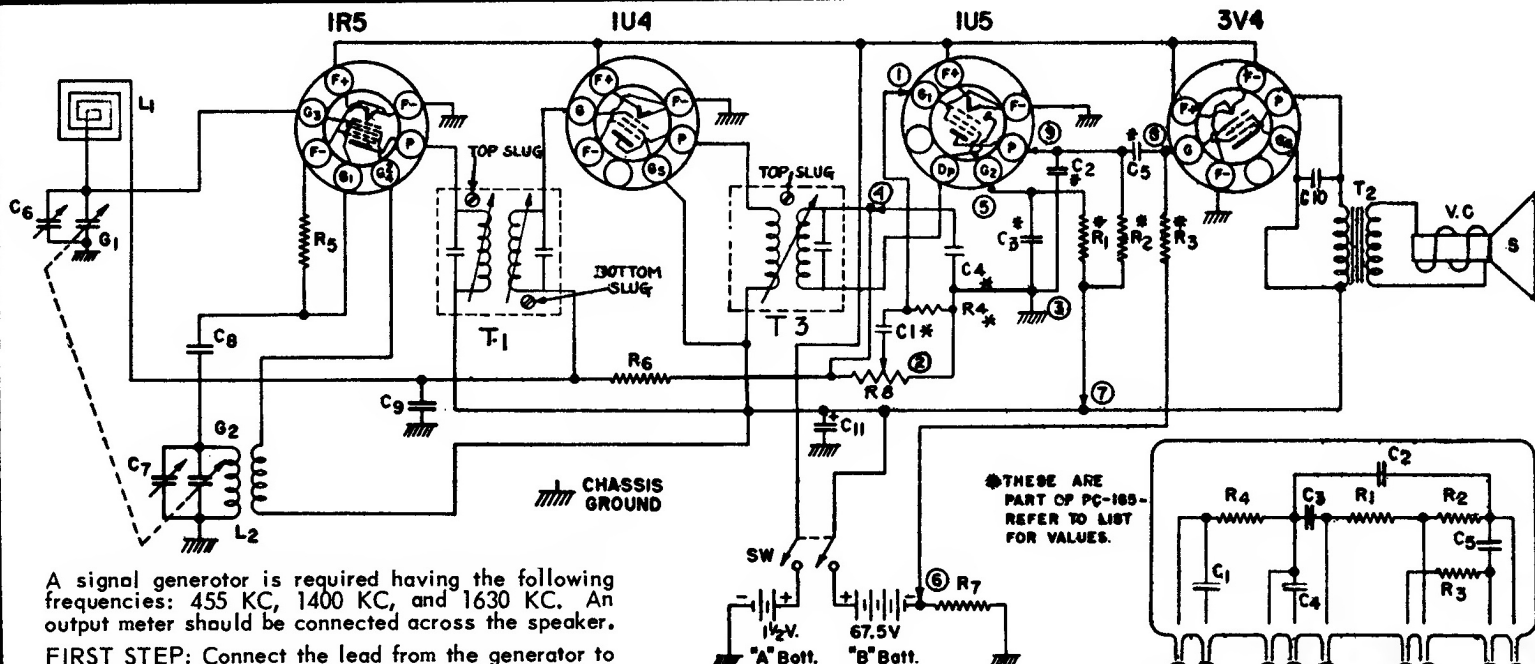


MODEL NO. D3500A



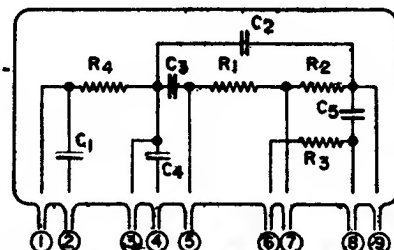
A signal generator is required having the following frequencies: 455 KC, 1400 KC, and 1630 KC. An output meter should be connected across the speaker.

FIRST STEP: Connect the lead from the generator to the ANT. section of the gang condenser, through a .1 Mfd. condenser. The ground lead from the generator may be connected to any spot on the metal chassis. Turn the gang condenser to complete minimum capacity. Set the generator to 455 KC. Adjust the movable iron cores in the IF cans. The IF adjustments are made in the top and in the bottom of the can nearest to the gang condenser. The remaining IF can, farthest from the gang condenser, is adjusted only from the top. Adjust the cores until a maximum reading is noted on the output meter.

The volume control of the receiver should be turned to maximum during the IF and all subsequent alignment and the generator output as low as possible to prevent the AVC from working and giving false readings.

SECOND STEP: With the leads from the generator still connected as in IF alignment, adjust the generator to 1630 KC. Make sure that the gang condenser is turned to complete minimum capacity. Adjust the generator to 1630 KC. and adjust the oscillator trimmer of the receiver until a signal is tuned in. Next, turn the gang condenser to complete maximum capacity. Adjust the generator to 535 KC., then adjust the iron core in the end of the oscillator coil until the signal is tuned in. It may be well to check the 1630 KC. setting to make sure that the adjustment of the iron core has not shifted the frequency.

THIRD STEP: Remove the generator leads from the gang condenser and the chassis. Loosely couple the generator to the antenna by laying the hot generator lead near the antenna rod. Set the generator at 1400 KC. and tune in the 1400 KC. signal on the receiver. Adjust the ANT. trimmer until a maximum signal is noted on the output meter.



PC-165 WIRING DIAGRAM

R₁ = 4.7 Meg.
R₂ = 1.0 Meg.
R₃ = 3.3 Meg.
R₄ = 10 Meg.

C₁ = 2000 mmf.
C₂ = 150 mmf.
C₃ = .01 mfd.
C₄ = 150 mmf.
C₅ = 5000 mmf.

PART NO.	SYMBOL	DESCRIPTION	PART NO.	SYMBOL	DESCRIPTION
CC-5	C-8	100 mmf. Ceramic Condenser	LO-18	L-2	Oscillator Coil
CC-3	C-9	.005 mfd. Ceramic Condenser	LI-10	T-1	I.F. Transformer Input
CC-20	C-10	.0015 mfd. Ceramic Condenser	SW		D.P.S.T. Switch (Part of Vol. Control)
EC-11	C-11	10 mfd. 70 V. Electrolytic Condenser	(T-2)		Speaker Transformer
IR-20	R-5	220 K. 20% 1/2 Watt Resistor	SPK-21	(VC)	Voice Coil
IR-23	R-6	3.3 Meg. 20% 1/2 Watt Resistor	(S)		P.M. Speaker
IR-39	R-7	620 10% 1/2 Watt Resistor	LI-11	T-3	I.F. Transformer Output
VC-40	R-8	1 meg. Volume Control	CA-140		Complete Cabinet
GC-12	(G-1)	Gang Condenser	K-130		Volume Knob
LL-30	(G-2)	Gang Condenser	K-131		Tuning Knob
	L-1	Loop Antenna	TU-40		Radio Tubes