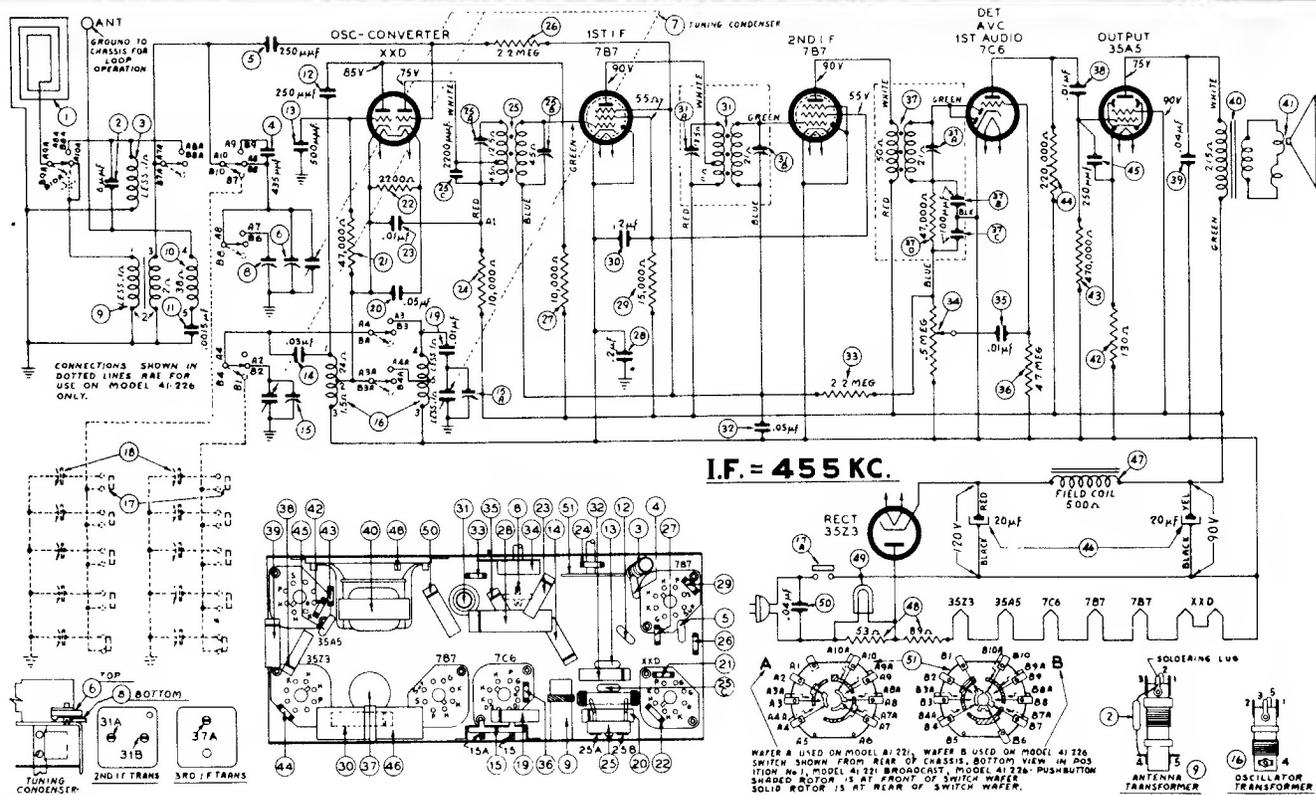


Opera- tions in Order	SIGNAL GENERATOR		RECEIVER	
	Output Connections to Receiver	Dial Setting	Dial Setting	Control Setting
1	Ant. Section of tuning Loop	455 K. C.	540 K. C. Tuning Cond. Closed	Vol. Max. Range Switch Bridet.
2	see above instructions	1600 K. C.	1600 K. C.	Vol. Max. Range Switch Bridet.
3	see above instructions	1500 K. C.	1500 K. C.	Vol. Max. Range Switch Bridet.
4	see above instructions	12 M. C.	12 M. C.	Range Switch "S. W."
				Adjust Compensators in Order
				37A, 31A, 31B, 25A, 25B
				15
				6
				15A, 8



Philco Radio, Models 41-221, 41-226

CONNECTING ALIGNING INSTRUMENTS

Audio Output Meter: If this type of aligning meter is used, connect it to the voice coil terminals of the speaker or from the plate of the 35A5 tube to the chassis. Adjust the meter for the 0 to 10 volt scale.

Vacuum Tube Voltmeter: To use the vacuum tube voltmeter as an aligning indicator, make the following connections: Attach the negative (—) terminal of the voltmeter to any point in the circuit where the A. V. C. voltage can be obtained. Connect the positive (+) terminal of the vacuum tube voltmeter to the chassis.

Signal Generator: When adjusting the I. F. padders, the high side of the signal generator is connected through a .1 mfd. condenser to the antenna section of the tuning condenser. Connect the ground or low side of the generator to the chassis.

When aligning the R. F. padders a loop is made from a few turns of wire and connected to the signal generator output terminals; the signal generator is then placed close to the loop of the radio.

The receiver can be adjusted in the cabinet or removed from the cabinet.

When adjusting the radio outside the cabinet the loop aerial should be placed in approximately the same position around or near the chassis as when assembled.

After connecting the aligning instruments adjust the compensators as shown in the tabulation below. Locations of the compensators are shown in the schematic diagram.

If the indicating meter pointer goes off scale when adjusting the compensators, reduce the strength of the signal from the generator.