

## Philco Radio & Television Corp.

Model: 41-608 (121)

Chassis:

Year: Pre April 1941

Power:

Circuit:

IF:

Tubes:

Bands:

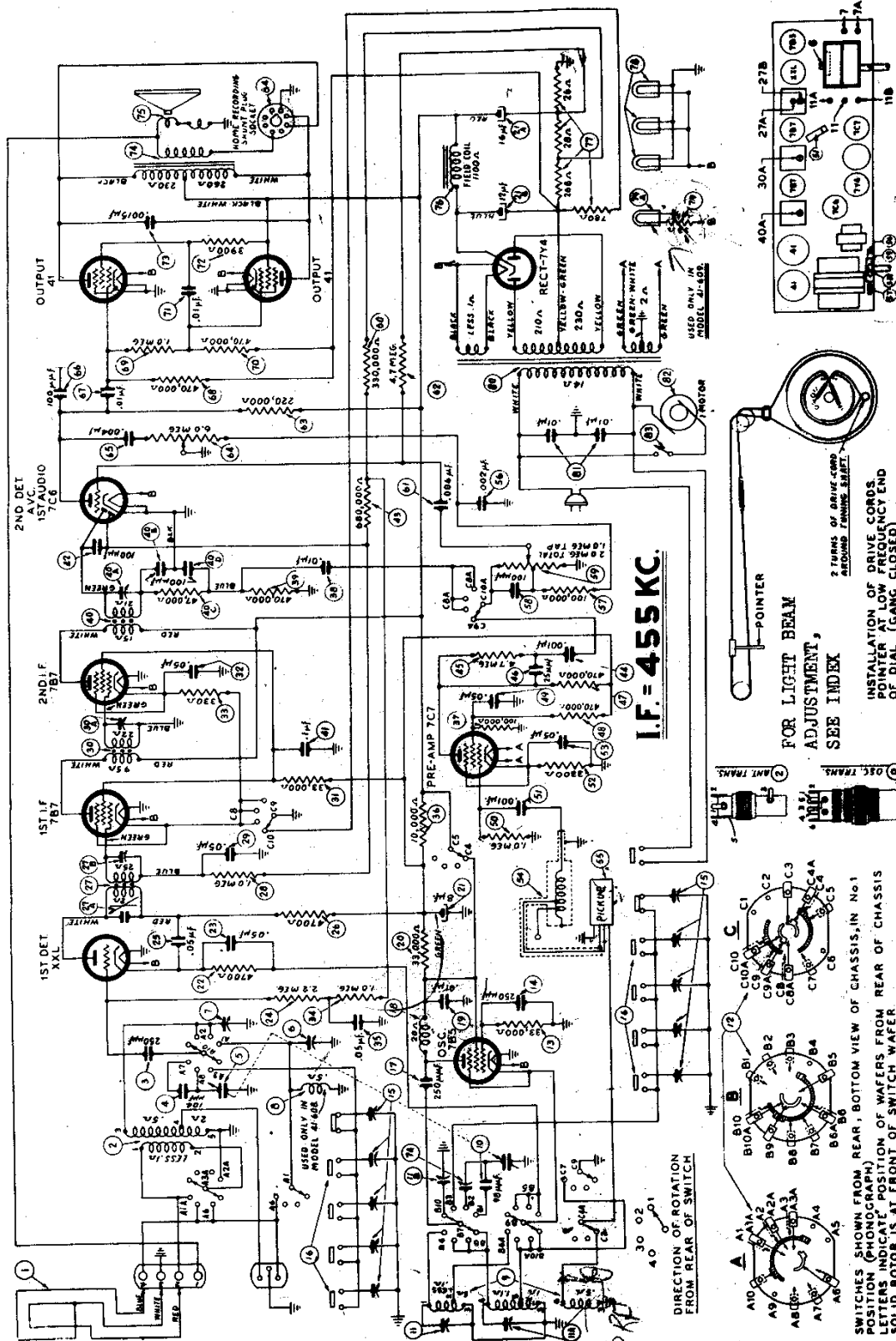
### Resources

[Riders Volume 12 - PHILCO 12-75](#)

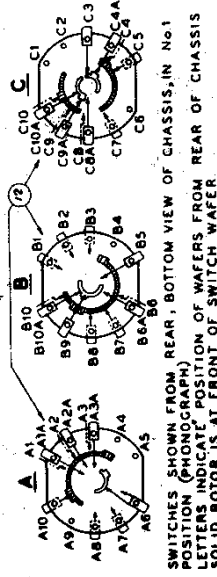
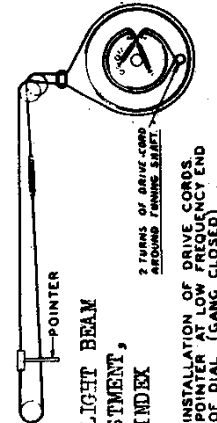
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PHILCO RADIO & TELEVISION CORP.

MODELS 41-60  
41-609 (121)



I.F. = 455 KC.

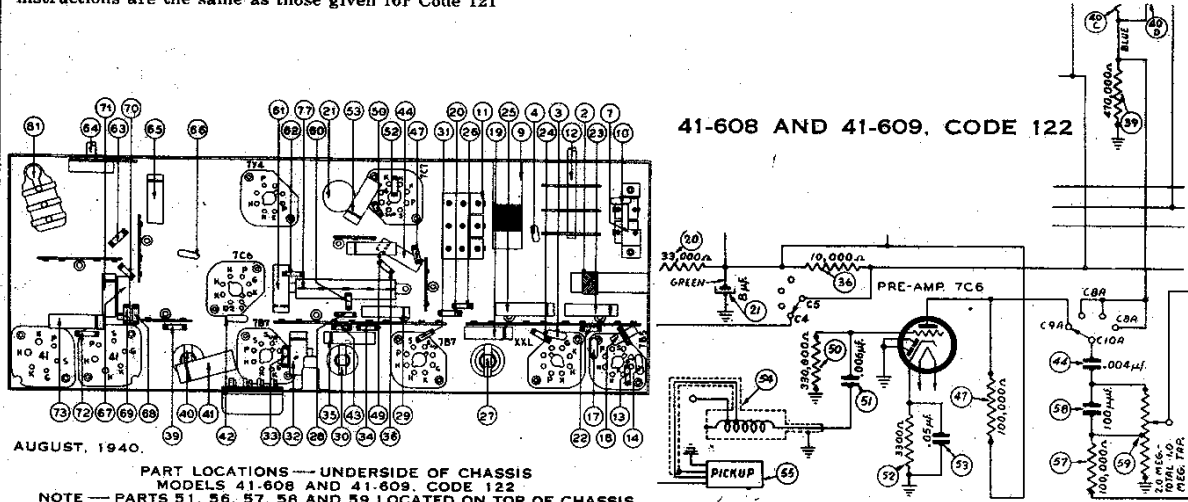


MODELS 41-608, 41-609  
Codes 121 and 122

PHILCO RADIO & TELEVISION CORP.

Models 41-608 and 41-609, Code 122, are similar to Models 41-608 and 41-609, Code 121, with the exception of the phonograph amplifier tube and circuit. A type 7C6 tube is used in the phonograph amplifier in the 41-608 and 41-609, Code 122, chassis, whereas a 7C7 tube is used in the Code 121.

The Code 122 "Specifications", "Light-Beam Reproducer Adjustments" and "Aligning R. F. and I. F. Compensators" instructions are the same as those given for Code 121



41-608 AND 41-609, CODE 122

AUGUST, 1940.

PART LOCATIONS—UNDERSIDE OF CHASSIS

MODELS 41-608 AND 41-609, CODE 122

NOTE—PARTS 51, 56, 57, 58 AND 59 LOCATED ON TOP OF CHASSIS

**TUBE SOCKET VOLTAGES**

D. C. voltages were measured with a 1000 ohms per volt voltmeter, Philco Model 027. Line voltage 120 volts A. C., no signal being received—range switch broadcast.

Tube	Location	Radio Per. D. C. Volt.	Phono. Per. D. C. Volt.
7B5 Osc.	Plate	27	185
" "	Screen	27	185
" "	Bias (Grid Leak)	7	47
XXL 1st Det.	Plate	130	180
" "	Bias (Cathode)	8	8
7B7 1st & 2nd I. F.	Plate	227	185
" "	Screen	72	185
" "	Bias (Cathode)	1.5	57
7C6 2nd Det. 1st Audio	Plate	165	140
7C6 Preamp.	Plate	45	125
41 Output Phase Inv.	Plate	222	183
" "	Screen	213	177
41 Output	Plate	222	183
" "	Screen	227	185
" "	12 mf. elect. to ground	305	290
" "	16 mf. elect. to ground	227	185
" "	8 mf. elect. to ground	137	178

ON CODE 121 ONLY

7C7 Preamp.	Plate	45	65
" "	Screen	20	28

PART LOCATIONS—UNDERSIDE OF CHASSIS

MODELS 41-608, 41-609

NOTE—PARTS 51, 56, 57, 58 AND 59 LOCATED ON TOP OF CHASSIS

Operations in Order	SIGNAL GENERATOR		RECEIVER			SPECIAL INSTRUCTIONS
	Output Connections to Receiver	Dial Setting	Dial Setting	Control Settings	Adjust Compensators in order	
1	Ant. Section of Tuning Cond. with .1 mfd. Cond.	455 K. C.	Tuning Cond. Closed	Vol. Max. Bands Switch S. W.	27A, 27B 30A, 40A	Note A
2	Loop Signal Generator	1500 K. C.	1500 K. C.	Bands Switch "Brdcst"	11A, 7	Note B
3	Loop Signal Generator	580 K. C.	580 K. C.	Bands Switch "Brdcst"	7A	Roll comp. (7A) to "max." Recheck Operation No. 2
4	Loop Signal Generator	12 M. C.	12 M. C.	Bands Switch S. W.	11, 6	Note C

NOTE A—Compensator (27A) must be adjusted before compensator (27B) and should be done in the following manner: Turn (27A) all the way up, then turn down selecting the first I. F. peak, compensator (27B) is now padded to maximum.

NOTE B—DIAL CALIBRATION: In order to adjust the receiver correctly, the dial must be aligned to track properly with the tuning condenser. To do this, proceed as follows: Turn the tuning condenser

to the maximum capacity position (plates fully meshed). With the condenser in this position, set the tuning pointer on the extreme left index line at the low frequency end of the broadcast scale.

NOTE C—Adjust-padder (11) to the first signal peak from the tight position. Roll padder (6) slowly to maximum on the second peak from loose position.