

## ALIGNMENT INSTRUCTIONS FOR PHILCO MODEL 48-460 CODE 121

IF ALIGNMENT

REMOVE RECEIVER FROM CABINET AND CONNECT THE OUTPUT METER TO THE LEFT TERMINAL (HIGH) AND THE CENTER TERMINAL (LOW) OF THE THREE LUG TERMINAL STRIP MOUNTED ON THE REAR OF THE CHASSIS.

CONNECT THE SIGNAL GENERATOR TO THE STANDARD HAZELTINE LOOP MODEL 1150 AND COUPLE IT LOOSELY TO THE RECEIVER LOOP.

SET THE SIGNAL GENERATOR TO 455 KC AND FULLY MESH THE RECEIVER TUNING CAPACITOR. KEEP THE RECEIVER VOLUME AT MAXIMUM AND THE OUTPUT OF THE SIGNAL GENERATOR SUFFICIENT TO GIVE A READABLE DEFLECTION ON THE OUTPUT METER. ADJUST FOR MAXIMUM I.F. TRIMMERS C9, C8, C7, AND C6.

RF OSC. ADJUSTMENT

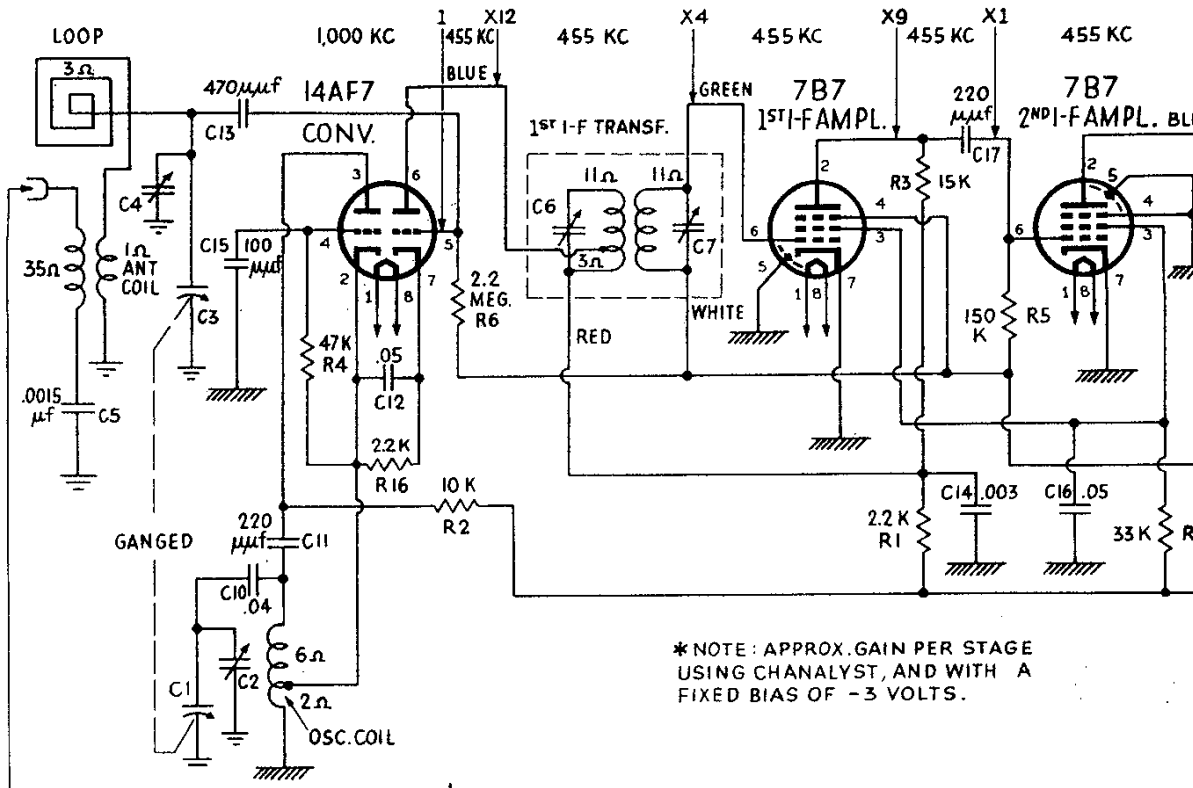
REPLACE THE RECEIVER IN CABINET. KEEPING THE SAME SETUP AS USED FOR IF ALIGNMENT, SET THE SIGNAL GENERATOR AND RECEIVER TO 1600 KC AND ADJUST OSCILLATOR TRIMMER C2 FOR MAXIMUM OUTPUT.

SET THE SIGNAL GENERATOR AND RECEIVER TO 1400 KC AND ADJUST RF TRIMMER C4 FOR MAXIMUM OUTPUT.

17-15,10

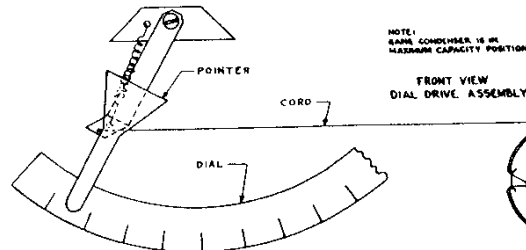
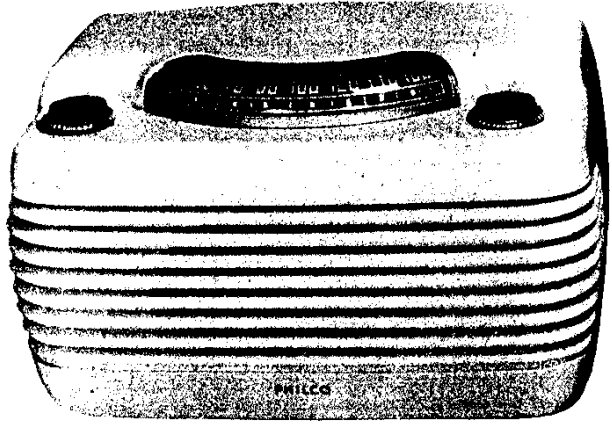
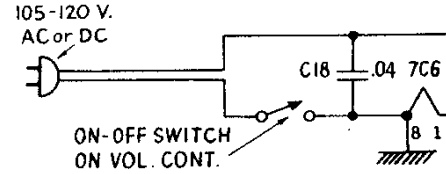
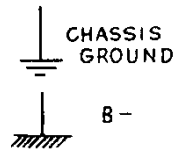
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\* GAIN D

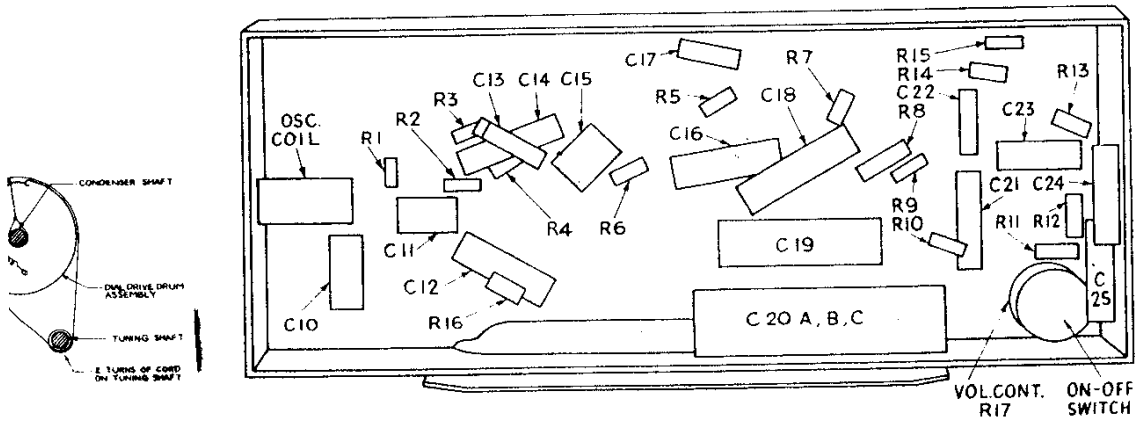
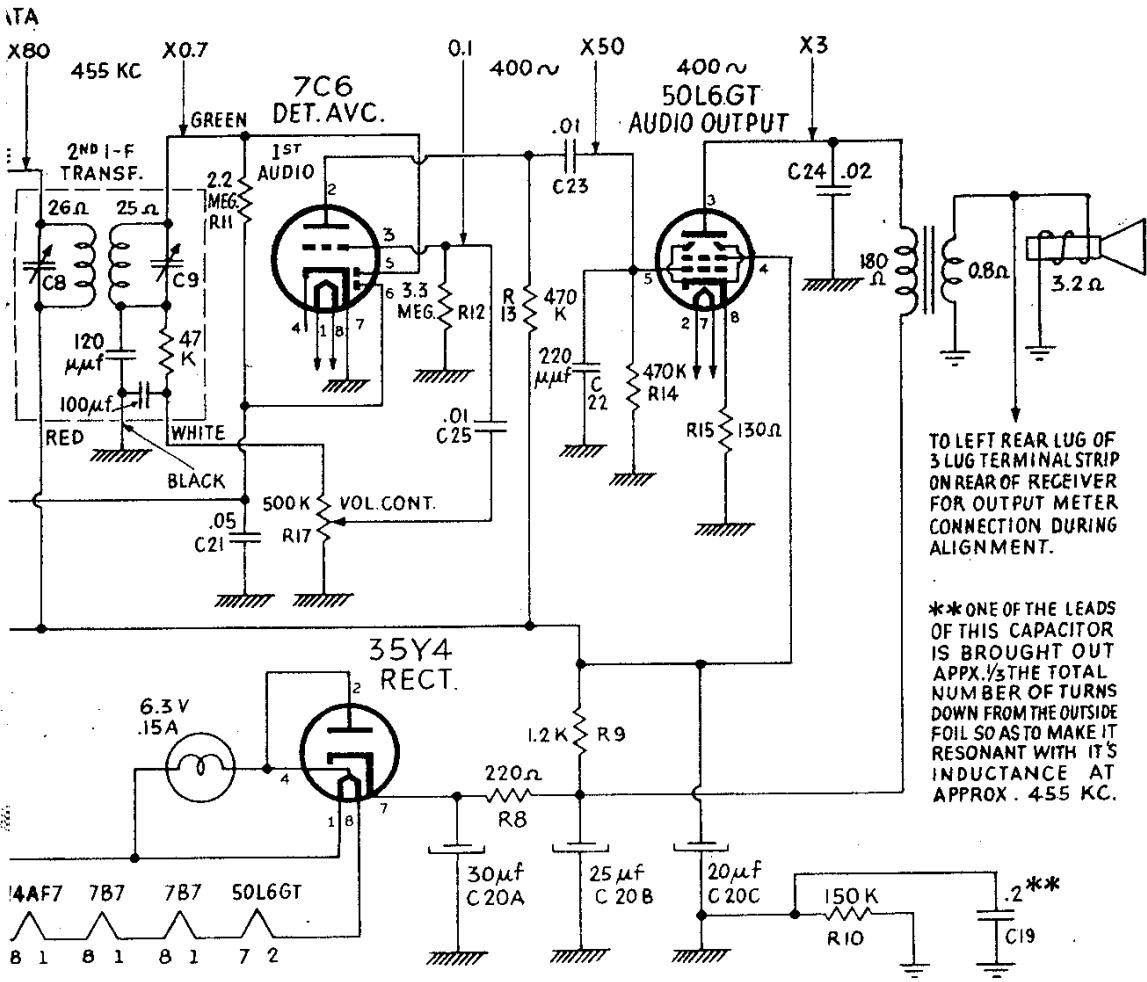


\* NOTE: APPROX. GAIN PER STAGE USING CHANALYST, AND WITH A FIXED BIAS OF -3 VOLTS.

GROUND TO CHASSIS WHEN NO EXT. ANTENNA IS USED.



NOTE: RANGE CONDENSER IS IN MAXIMUM CAPACITY POSITION.  
FRONT VIEW DIAL DRIVE ASSEMBLY



## PHILCO CORP.

MODEL 48-460

Code 121

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TUBE	PIN	VTVM	RESISTANCE		
			20,000 OHM PV	1,000 OHM PV	
14AF7 CONV.	1	AC	AC	AC	22 OHM
	2	0	0	0	2 OHM
	3	60	60	56	OVER 500 K
	4	-2.5	-2.5	-2.2	50 K
	5	-0.8	0	0	4.5 MEG
	6	80	80	80	OVER 500 K
	7	3.5	3.4	3.2	2 K
	8	AC	AC	AC	10 OHM
7B7 1st IF AMPL.	1	AC	AC	AC	25 OHM
	2	30	30	28	OVER 500 K
	3	40	40	38	OVER 500 K
	4	-0.8	-0.6	-0.3	2.5 MEG
	5	0	0	0	0
	6	-0.8	-0.6	-0.3	2.5 MEG
	7	0	0	0	0
	8	AC	AC	AC	20 OHM
7B7 2nd IF AMPL.	1	AC	AC	AC	34 OHM
	2	84	84	84	OVER 500 K
	3	40	40	38	OVER 500 K
	4	0	0	0	0
	5	0	0	0	0
	6	-0.8	-0.6	-0.2	2.8 MEG
	7	0	0	0	0
	8	AC	AC	AC	26 OHM
7C6 DET. AVC 1st AUDIO	1	AC	AC	AC	8 OHM
	2	48	48	16	OVER 500 K
	3	-0.5	-0.4	-0.2	3 MEG
	4	0	0	0	0
	5	-0.5	-0.4	-0.2	525 K
	6	-0.8	-0.6	-0.3	2.8 MEG
	7	0	0	0	0
	8	0	0	0	0
50L6GT AUDIO OUTPUT	1	--	--	--	--
	2	AC	AC	AC	85 OHM
	3	100	100	100	OVER 500 K
	4	88	88	88	OVER 500 K
	5	0	0	0	500 K
	6	--	--	--	--
	7	AC	AC	AC	34 OHM
	8	6	6	6	130 OHM
35Y4 RECT.	1	AC	AC	AC	115 OHM
	2	AC	AC	AC	112 OHM
	3	88	88	88	OVER 500 K
	4	AC	AC	AC	112 OHM
	5	0	0	0	0
	6	88	88	88	OVER 500 K
	7	118	118	118	OVER 500 K
	8	AC	AC	AC	85 OHM

NOTE: ALL VOLTAGE AND RESISTANCE MEASUREMENTS MADE WITH RESPECT TO  
B- AND WITH A LINE VOLTAGE OF 116 V.A.C.