

Allied Radio Corp.

Model: 5F-600

Chassis:

Year: Pre 1951

Power:

Circuit:

IF:

Tubes:

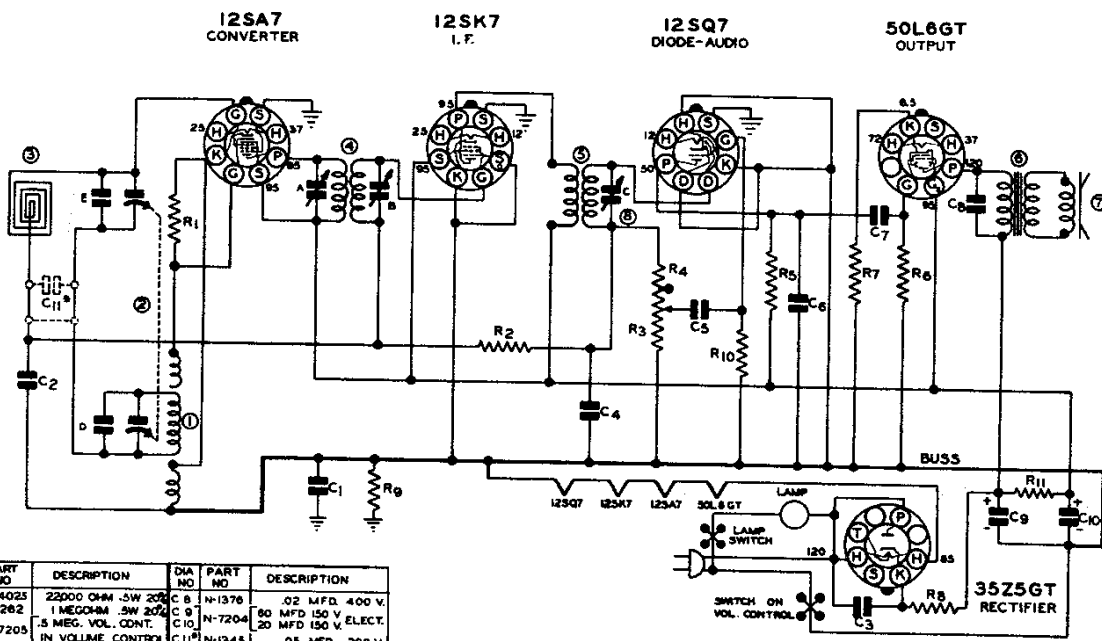
Bands:

Resources

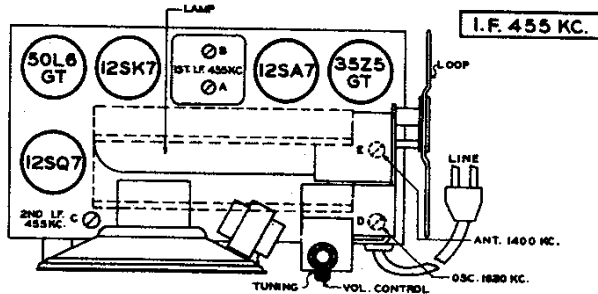
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PAGE 21-2 ALLIED RADIO

MODELS 5F-600,
5F-601



DIA NO	PART NO	DESCRIPTION	DIA NO	PART NO	DESCRIPTION
R1	N-4025	22000 OHM .5W 20%	C 8	N-1378	.02 MFD. 400 V.
R2	N-1262	1 MEGOHM .5W 20%	C 9	N-7204	80 MFD 150 V. ELECT.
R3	N-7205	.5 MEG. VOL. ODNT.	C 10	N-7204	20 MFD 150 V.
R4	N-7205	IN VOLUME CONTROL	C 11	N-1345	.05 MFD. 200 V.
R5	N-4026	22000 OHM .5W 20%			USED IN SOME MODELS
R6	N-4027	47000 OHM .5W 20%			
R7	N-4244	OR 220 OHM .5W 10%			
R8	N-4024	OR 220 OHM .5W 10%			
R9	N-4256	47 OHM LOW 10%			
R10	N-4026	22000 OHM .5W 20%	N-2994		LAMP SWITCH
R11	N-4028	6.5 MEGOHM .5W 20%	N-2593		25W T-10 110V LAMP
C1	N-1345	.05 MFD 200 V.	1	N-7159	OSCILLATOR COIL
C2	N-1345	.05 MFD 200 V.	2	N-7203	2 GANG CONDENSER
C3	N-1346	.05 MFD 400 V.	3	N-7199	ANT. LOOP COIL
C4	N-6015	100 MMFD CERAMIC	4	N-4813	1ST. I.F.
C5	N-4894	005 MFD 600 V.	5	N-4846	2ND I.F.
C6	N-8135	250 MMFD CERAMIC	6	N-7197	5PKR & OUTPUT XFMR
C7	N-1344	.01 MFD 400 V.	7	N-7198	
			8	N-4965	2ND I.F. TRIMMER



This receiver is designed to operate over the standard broadcast band which extends from 535 to 1620 Kilocycles (KC) (185 to 560 Meters.)

ALIGNMENT PROCEDURE

GENERAL DATA. The alignment of this receiver requires the use of a test oscillator that will cover the frequencies of 455, 600, 1400 and 1620 KC and an output meter to be connected across the primary or secondary of the output transformer. If possible, all alignments should be made with the volume control on maximum and the test oscillator output as low as possible to prevent the AVC from operating and giving false readings.

CORRECT ALIGNMENT PROCEDURE. The intermediate frequency (I.F.) stages should be aligned properly as the first step. After the I.F. transformers have been properly adjusted and peaked, the broadcast band should be adjusted.

I.F. ALIGNMENT. Remove the chassis and loop antenna from the cabinet and set them up on the bench so that they occupy exactly the same respective positions on the bench as they did in the cabinet. Care should be taken to have no iron or other metal near

the loop. Do not make this set-up on a metal bench. With the gang condenser set at minimum, adjust the test oscillator to 455 KC and connect the output to the grid of the converter tube (12SA7) through a .05 or .1 mfd. condenser. The ground on the test oscillator should be connected to the ground buss, indicated on the circuit diagram. Align all three I.F. trimmers to peak or maximum reading on the output meter.

BROADCAST BAND ALIGNMENT. Connect the test oscillator to a dummy loop which can be made by coiling 2 turns of hookup wire about 6" in diameter. Place this dummy loop about a foot from the loop on the receiver and in the same plane as the receiver loop. With the gang condenser set at minimum capacity, set the test oscillator at 1620 KC, and adjust the oscillator (or 1620 KC trimmer) on the gang condenser. Next—set the test oscillator at 1400 KC, and tune in the signal on the gang condenser. Adjust the antenna trimmer (or 1400 KC trimmer) for maximum signal. Next set the test oscillator at 600 KC, and tune in signal on condenser to check alignment of coils.