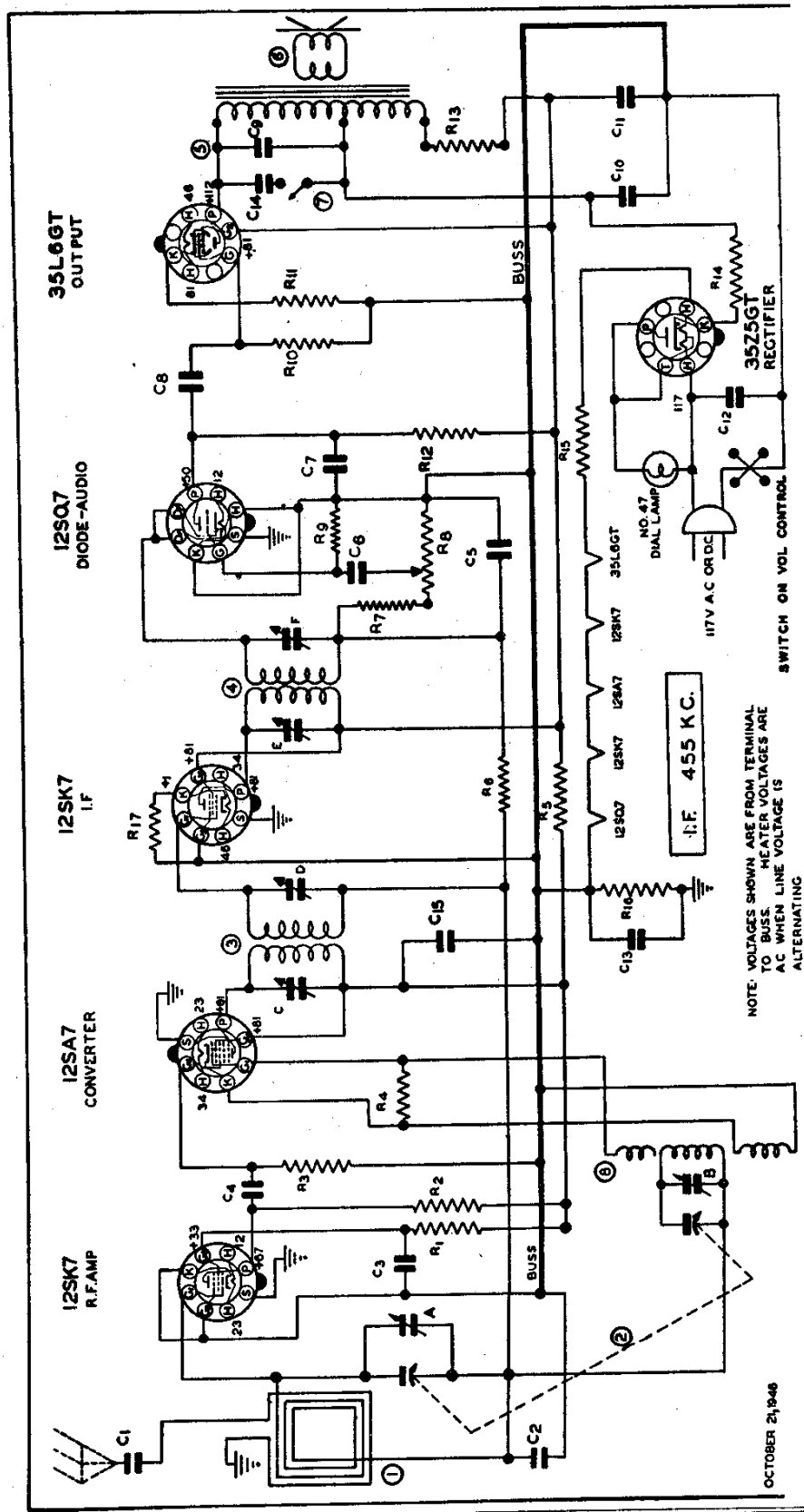
Allied Radio Corp.

	Model: 6C-226	Chassis:	Year: Pre 1949
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		

Resources
Riders Volume 17 - ALLIED 17-3
Riders Volume 17 - ALLIED 17-4

ALLIED RADIO CORP. MODELS 6C-225,6C-226



MODELS 6C-225,6C-226 ALLIED RADIO CORP.

SERVICE DATA

Lack of sensitivity and poor tone quality may be due to any one or a combination of causes such as weak or defective tubes or speaker, open or grounded bias resistor, bypass condenser, etc. Never attempt to realign set until all other possible sources of trouble have been first thoroughly investigated and definitely proved not to be the cause.

NOTE: IT IS ABSOLUTELY NECESSARY THAT AN ACCURATELY CALIBRATED TEST OSCILLATOR WITH SOME TYPE OF OUTPUT MEASURING DEVICE BE USED WHEN ALIGNING THE RECEIVER AND THAT THE PROCEDURE BE CAREFULLY FOLLOWED. OTHERWISE THE RECEIVER WILL BE INSENSITIVE AND THE DIAL CALIBRATION WILL BE INCORRECT. THE TRIMMERS WILL BE REFERRED TO BY THEIR FUNCTION AS INDICATED ON THE PARTS DIAGRAM.

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 first detector 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 four I.F. trimmers to peak or maximum reading on the output meter.

BROADCAST BAND ALIGNMENT. Connect the test oscillator to the antenna of the set through a 100 mmfd. (.0001) condenser. With the gang condsenser set at minimum capacity, set the test oscillator at 1620 KC, and adjust the oscillator (or 1620 KC trimmer) on 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.

TUNING RANGE

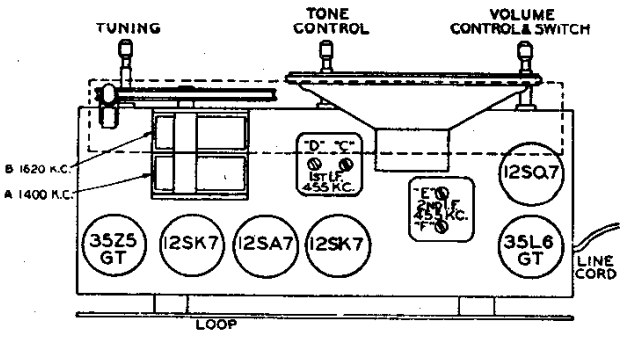
This receiver is designed to operate over the standard broadcast band which extends from 535 to 1620 Kilocycles (KC) (185 to 560 Meters).

DIAL CALIBRATION. The scale is calibrated from 55 to 160 (Standard Broadcast). This band covers all Standard Broadcast frequencies of the United States, Canada, Mexico, Cuba and many Central and South American Countries. Add a zero to figures on the scale to obtain kilocycles.

GROUND. No ground connection should be used when operaitng this receiver. The receiver gets its ground connection through the power line and any external connection to the chassis may cause a short circuit and consequent damage.

POWER SUPPLY. This receiver is designed to operate on any alternating current supply (AC) ranging from 110 to 120 volts, 50 to 60 cycles; or on any direct current supply (DC) ranging from 110 to 120 volts.

DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
C1	N-1344	.01 MFD 400 V. 20%	R6	N-1262	1 MEGOHM .5W 20%
C2	N-1345	.05 MFD 200 V. 20%	R7	N-4063	47,000 OHM .5W 20%
C3	N-1345	.05 MFD 200 V. 20%	R8	N-5028	0.5 MEGOHM VOL. CONT.
C4	N-2383	150 MMFD MICA 20%	R9	N-4081	4.7 MEGOHM .5W 20%
C5	N-1374	100 MMFD MICA 20%	R10	N-4027	470,000 OHM .5W 20%
C6	N-4894	.005 MFD 600V -15+40%	R11	N-4067	180 OHM .5W 10%
C7	N-4890	.0005 MFD 600V -25+60%	R12	N-4988	220,000 OHM .5W INS. 20%
C8	N-1344	.01 MFD 400V 20%	R13	N-4900	1200 OHM 1W 10%
C9	N-1344	.01 MFD 400V. 20%	R14	N-4022	33 OHM .5W 20%
C10	N-3656	40 MFD 150 W.V ELECTRO	R15	N-4628	33 OHM 1W 10%
C11		40 MFD 150 W.V LYTIC	R16	N-4026	220,000 OHM .5W 20%
C12	N-1346	.05 MFD 400 V. 20%	R17	N-5657	82 OHM .5W. 10%
C13	N-5160	.2 MFD 200V -10+10%	1	N-5937	LOOP COIL
C14	N-1346	.05 MFD 400V. 20%	2 OR	N-5286	2 GANG CONDENSER
C15	N-1351	.1 MFD 200V. -10+20%	1 OR	N-5765	LOOP COIL
			2	N-5936	2 GANG CONDENSER
			3	N-4872	1ST I.F. TRANSFORMER
			4	N-5571	2ND I.F. TRANSFORMER
R1	N-4063	47,000 OHM .5W. 20%	5	N-4875	OUTPUT TRANSFORMER
R2	N-4896	2200 OHM .5W 10%	6	N-4868	5" SPEAKER
R3	N-4067	47,000 OHM .5W INS. 20%	7	N-4942	TONE SWITCH
R4	N-5351	22,000 OHM .5W INS. 20%	8	N-4810	OSCILLATOR COIL
R5	N-4068	470 OHM .5W 10%			



TUBE & TRIMMER LOCATIONS