

## Allied Radio Corp.

**Model:** 5E-251

**Chassis:**

**Year:** Pre 1950

**Power:**

**Circuit:**

**IF:**

**Tubes:**

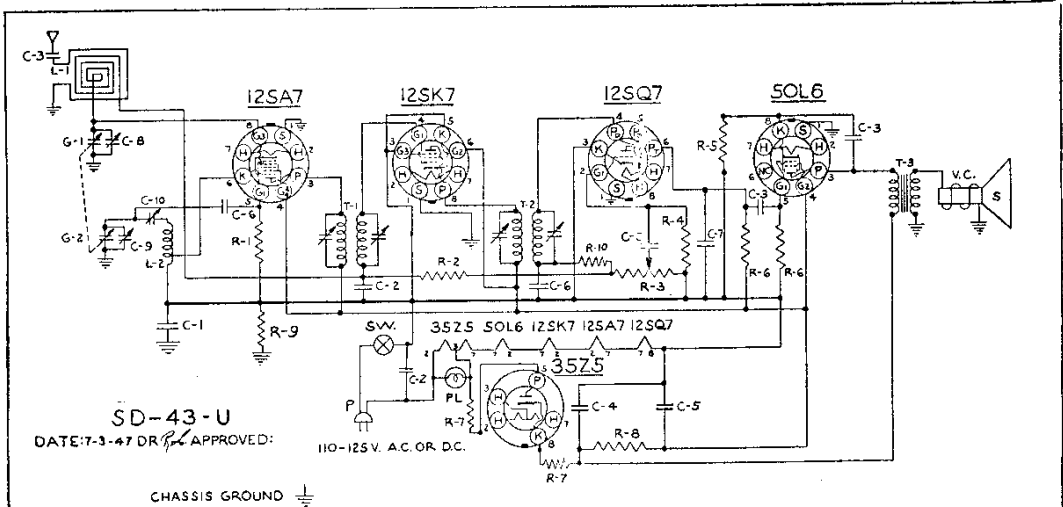
**Bands:**

### Resources

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ALLIED RADIO CORP. MODELS 5D-250,  
5D-251, 5E-250, 5E-251



PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
IR-9	R-1 22000 Ω RESISTOR 1/2 W 20%	TC-7	C-8 ANTENNA TRIMMER COND.	CO-1	P LINE CORD
IR-23	R-2 3.3 MEG. RESISTOR 1/2 W 20%	TC-6	C-9 OSC. TRIMMER COND.	TU-3	12SA7 GT 12SA7 GT
VC-4	R-3 1 MEG. VOL. CONTROL & SW.	TC-9	C-10 OSC. PADDING COND.		12SQ7 GT SOL6 GT 35Z5GT
IR-13	R-4 2.2 MEG. RESISTOR 1/2 W 20%	IR-20	R-9 220M Ω RESISTOR 1/2 W 20%		
IR-14	R-5 150 Ω RESISTOR 1/2 W 20%	GC-1	G-1 GANG CONDENSER		
IR-11	R-6 470M Ω RESISTOR 1/2 W 20%	G-2	G-2 LOOP ANTENNA		
IR-17	R-7 33 Ω RESISTOR 1/2 W 20%	L-1	L-1 OSC. COIL		
IR-25	R-8 2200 Ω RESISTOR 1/2 W 10%	L-2	L-2 INPUT I.F. TRANSFORMER		
PC-8	C-1 .1MFD. COND. 400V.	LI-1	LI-1 OUTPUT I.F. TRANSFORMER		
PC-5	C-2 .05MFD. COND. 400V.	LI-2	LI-2 OUTPUT SPKR. TRANSFORMER		
PC-7	C-3 .01 MFD. COND. 400V.	SPK-6	V.C. VOICE COIL		
EC-12	C-4 40 MFD. 150V. ELECTROLYTIC	S	S P.M. SPEAKER		
MC-2	C-5 20 MFD. MICA COND.	PB-1	PB-1 NO. 47 PILOT BULB		
MC-1	C-6 100MMFD. MICA COND.	SW	SW AC. SW. ON VOL. CONTROL		
IR-10	R-10 47M Ω 1/2 W 20%				

## OPERATING INSTRUCTIONS

**POWER SOURCES:** This receiver may be operated on alternating current (AC) of 110 to 125 volts at 60 cycles or on direct current (DC) of 110 to 125 volts. When used on DC, if the tubes light up but set does not play, reverse the cord plug in the power outlet.

**CAUTION:** Always predetermine voltage of power source. Never try to plug this receiver into a 220 volt line, as this will cause serious damage.

**INSTALLATION:** Unwind the power cord and plug into a convenient outlet. This receiver is equipped with a sensitive loop antenna and under ordinary conditions no external antenna would be required. However, in steel constructed buildings or in distant isolated locations, the reception may be improved by using an outside antenna. This should be a single wire not more than 50 feet long and should be connected to the antenna lead that projects from the back of the receiver. No ground wire is required at any time.

MODELS 5D-250,  
5D-251, 5E-250, 5E-251

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## ALIGNMENT AND SERVICE DATA

Remove chassis from cabinet for alignment.

A Signal Generator is required having the following frequencies: 455 KC, 1400 KC, 1720 KC. An output meter should be connected across the speaker.

The receiver volume control should be turned to maximum during the I.F. and all subsequent alignments to keep the AVC from working and giving false readings. Keep the generator output as low as possible to prevent overloading.

**FIRST STEP:** Connect the hot lead from the generator to the ANT. section of the gang condenser, through a .1 MFD condenser. The ground lead from the generator must be connected to the floating ground buss under the chassis. Turn the gang condenser to complete minimum capacity. Adjust the generator to 455KC and adjust the trimmers of the 1st and 2nd I.F. transformers until a maximum reading is noted on the output meter.

**SECOND STEP:** With the leads from the generator still connected in the same manner, adjust the Signal Generator to 1720 KC. The OSC. trimmer is located on the front of the chassis. Adjust this trimmer until the 1720 KC signal is tuned in.

**THIRD STEP:** Remove the hot lead of the generator from the ANT section of the gang condenser. Connect this lead to the primary of the loop antenna through a 200 MMFD condenser. Adjust the Signal Generator to 1400 KC. Rotate the tuning control until this signal is tuned in. The ANT trimmer is located on the top of the ANT. section of the gang condenser. Adjust this trimmer until a maximum reading is noted on the output meter. No further adjustment should be necessary, unless the set has been damaged, as the coils and condenser in this receiver have been specially handled at the factory to insure proper alignment at the lower frequencies.

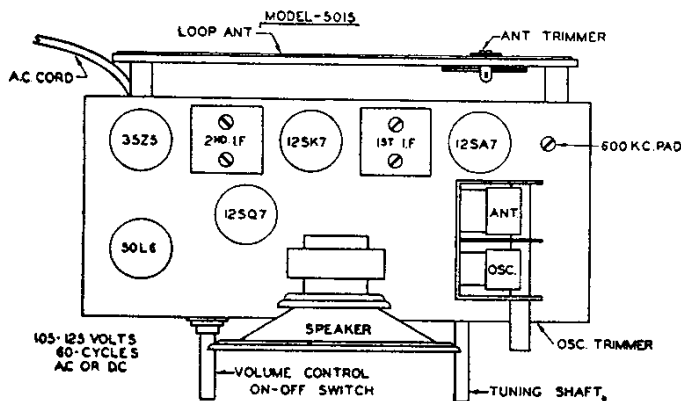


FIGURE-1

**CONTROLS:** Two knobs control the operation of this receiver. The left hand knob is used to turn set off and on. It is also used to control volume. Rotate knob to your right in a clockwise direction and a click will be heard. This turns receiver on. Allow about 30 seconds for tubes to heat up, then continue to rotate knob to your right to increase volume. The right hand knob is the station selector. Rotate this knob to the right or left to locate your station. By mentally adding a zero to the numbers on the dial, the result will be read directly in kilocycles. To turn set off, turn left hand knob to your left in a counter-clockwise direction as far as it will go and a click will be heard. The power switch will then be turned off.