

## Allied Radio Corp.

**Model: 5B-171**

**Chassis:**

**Year: Pre 1948**

**Power:**

**Circuit:**

**IF:**

**Tubes:**

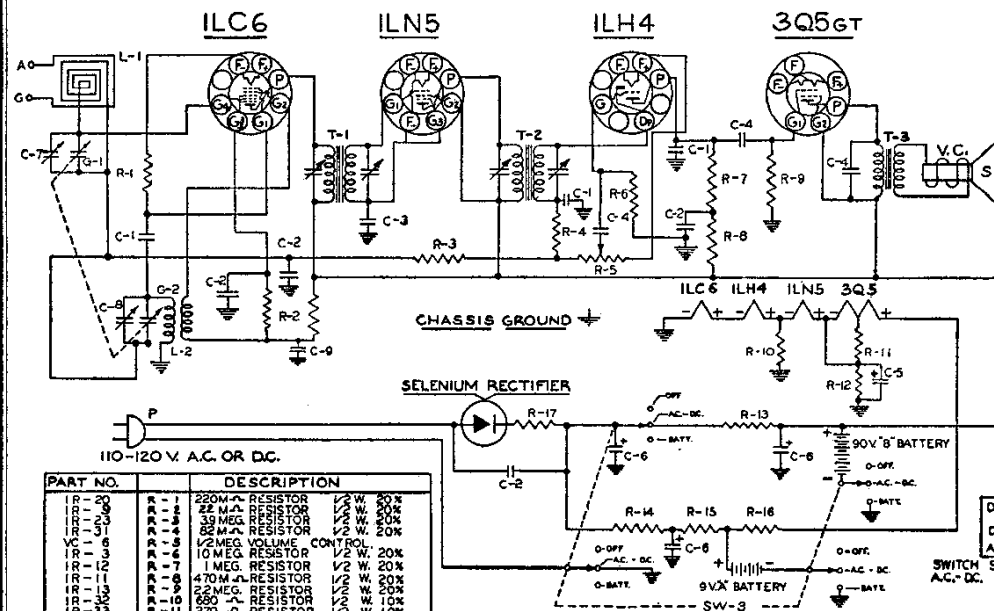
**Bands:**

### Resources

**Riders Volume 16 - ALLIED 16-1**

**Riders Volume 16 - ALLIED 16-6**

ALLIED RADIO CORP.

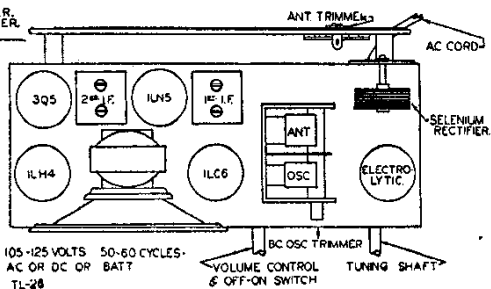


PART NO.	DESCRIPTION	QTY	W	V
IR-20	220M- $\Omega$ RESISTOR	1/2	W.	30V
IR-23	22 M- $\Omega$ RESISTOR	1/2	W.	20V
IR-31	39 M- $\Omega$ RESISTOR	1/2	W.	20V
IR-32	82 M- $\Omega$ RESISTOR	1/2	W.	20V
VC-6	1/2 MEG. VOLUME CONTROL	1	W.	20V
IR-3	10 MEG. RESISTOR	1/2	W.	20V
IR-112	1 MEG. RESISTOR	1/2	W.	20V
IR-111	470M- $\Omega$ RESISTOR	1/2	W.	20V
IR-113	24 MEG. RESISTOR	1/2	W.	20V
IR-110	270- $\Omega$ RESISTOR	1/2	W.	10V
IR-1121	330- $\Omega$ RESISTOR	1/2	W.	10V
IR-1122	680- $\Omega$ RESISTOR	1/2	W.	10V
IR-1123	1000- $\Omega$ RESISTOR	1/2	W.	10V
WR-3	1050- $\Omega$ CANDOHM RESISTOR	1		
IR-118	1050- $\Omega$ RESISTOR	1		
IR-117	75- $\Omega$ RESISTOR	2	W.	10V
CC-11	100 MMFD. MICA CONDENSER	1		
CC-111	.05 MFD. CONDENSER 400 V.	1		
CC-112	.01 MFD. CONDENSER 400 V.	1		
CC-113	.1 MFD. CONDENSER 400V.	1		
CC-114	.005MFD. CONDENSER 600V.	1		

PART NO.	DESCRIPTION
EC-6	70MFD. 10V ELECTROLYTIC
EC-8	40-40-40-150V. ELECTROLYTIC
TC-7	ANTENNA TRIMMER COND.
TC-8	OSC. TRIMMER COND.
GC-2	GANG CONDENSER
LL-5	LOOP ANTENNA
LL-8	OSC. COIL
LI-3	INPUT I.F. TRANSFORMER
LO-4	OUTPUT I.F. TRANSFORMER
CO-1	LINE CORD

PART NO.	DESCRIPTION
SPK-5	OUTPUT SPEAKER TRANSFORMER
VC-9	VOIC. SPEAKER
SW-3	4 POLE, 3-POSITION SW.
SR-1	SELENIUM RECTIFIER
TU-20	ILC6 - ILN5 - ILH4 - 3Q5
"A" BATTERY	9 VOLTS.
"B" BATTERY	90 VOLTS.

IF PEAK  
455 KC



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.

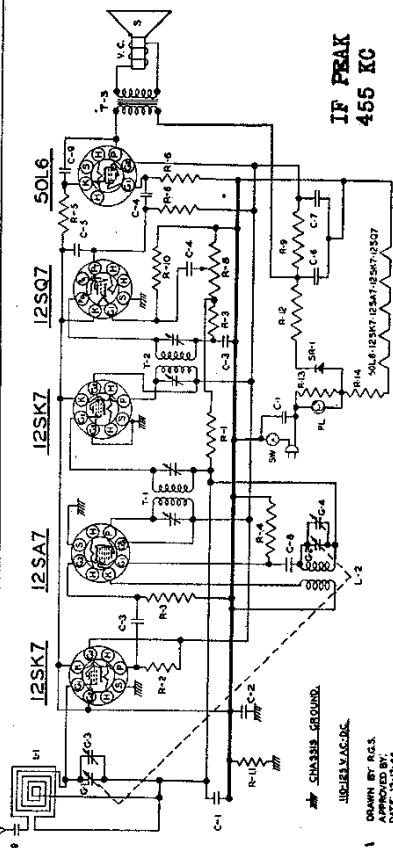
**FIRST STEP:** Connect the hot lead from the generator to the ANT. section of the gang condenser, through a .1 MFD condenser. The ground lead from the generator must be connected to the metal frame of the gang condenser. Turn the gang condenser to complete minimum capacity. Adjust the generator to 455KC 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 top of the oscillator section of the gang condenser. 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 antenna lead wire that projects from the back 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 back of the loop antenna. 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.

MODELS 6B-155, 6B-156  
MODEL 5B-171

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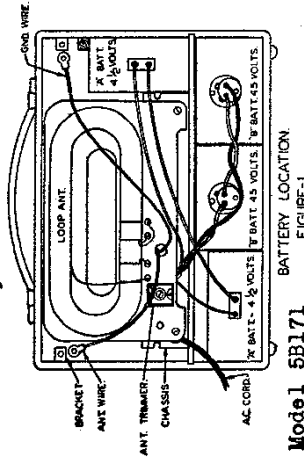
IF PEAK  
455 KC

DRAWN BY R.C.S.  
DATE: 12-17-46

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
IR-23	1500Ω RESISTOR 1/2W 20	MC-5	200MMFD MICA CONDENSER	GC-2	50L6
IR-19	100Ω RESISTOR 1/2W 20	EC-10	500MMFD MOV ELECTROLYTIC	CC-2	50L6
IR-18	100Ω RESISTOR 1/2W 20	MC-2	100MMFD MICA CONDENSER	TC-7	ANT TRIMMER CONDENSER
IR-14	150Ω RESISTOR 1/2W 20	MC-4	100MMFD MICA CONDENSER	TC-9	ANT TRIMMER CONDENSER
IR-11	150Ω RESISTOR 1/2W 20	MC-7	100MMFD MICA CONDENSER	SW	SWITCH ON VOLUME CONTROL
VC-5	100MMFD MICA CONDENSER	MC-9	100MMFD MICA CONDENSER	TU-25	50L6
IR-10	100Ω RESISTOR 1/2W 20	CO-1	OSC. COIL	WR-4	50L6
IR-9	100Ω RESISTOR 1/2W 20	PL	PLATE LOAD	R13	300Ω 3W 5%
IR-8	100Ω RESISTOR 1/2W 20	L1	LOOP ANTENNA	SR-1	SELENIUM RECTIFIER
IR-7	100Ω RESISTOR 1/2W 20	L2	OSC. COIL	SR-1	SELENIUM RECTIFIER
IR-6	100Ω RESISTOR 1/2W 20	L3	OSC. COIL	SR-1	SELENIUM RECTIFIER
IR-5	100Ω RESISTOR 1/2W 20	SPK-5	5" SPEAKER		
IR-4	100Ω RESISTOR 1/2W 20				
IR-3	100Ω RESISTOR 1/2W 20				
IR-2	100Ω RESISTOR 1/2W 20				
IR-1	100Ω RESISTOR 1/2W 20				

To replace batteries, loosen and remove the two screws at the upper left and right hand corners of the cabinet back. Remove the back and pull out the plug from each battery. Never pull on the wires connected to the plugs as they may break. Always grasp the plug form between the fingers, or use a flat blade to pry out the plug. Observe with care the position of the batteries and plugs when replacing. Be sure that batteries and plugs are replaced as shown in the "Battery Location" diagram. (Figure No. 1)

After the batteries have been installed, replace the back, making sure that the two washers riveted to the bottom of the back, fit into the slots near the bottom edge of the cabinet. Also make sure that the two wires from the loop antenna are held in place between the top brackets of the cabinet and the back by the two fastening screws.



Mfg.	Volts	Type No.
Burgess	45 "B"	M30
General	45 "B"	W30B
Bright Star	45 "B"	3033
Uscilite	45 "B"	640
Rayovac	45 "B"	P7830
Evershady	45 "B"	482
Burgess	4 1/2 "A"	G3
General	4 1/2 "A"	3H3
Bright Star	4 1/2 "A"	361
Uscilite	4 1/2 "A"	683
Rayovac	4 1/2 "A"	P83A
Evershady	4 1/2 "A"	746

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 back of the loop antenna. 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.

