Allied Radio Corp.

	Model: 5G-563	**Chassis:**	**Year:** Pre 1952
	Power:	**Circuit:**	**IF:**
	Tubes:		
	Bands:		

Resources

- Riders Volume 22 - ALLIED 22-1
- Riders Volume 22 - ALLIED 22-2
- Riders Volume 20 - ALLIED 20-2

Courtesy Nostalgia Air

HOW TO INSTALL THE RADIO

MODEL 5G-563

POWER SUPPLY: This receiver is designed to operate from a power source of 110 to 125 volts AC current at 60 cycles only.

Always predetermine the type of power in your location by consulting the local power company for this information.

CAUTION: Never plug this unit into a 220 Volt or a DC power source as you will seriously damage the component parts, which have been designed for 110 to 125 volts AC current at 60 cycles only.

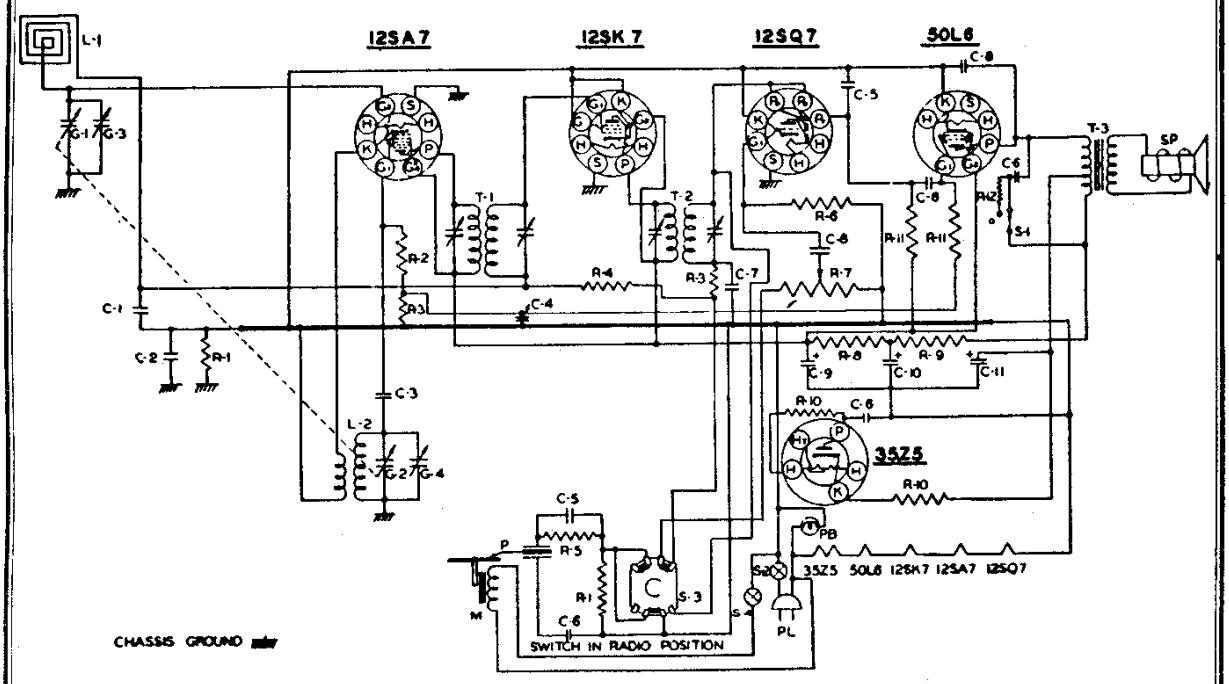
ANTENNA: This receiver is equipped with a sensitive loop antenna and will require no external antenna or ground. However, due to the directional qualities of the loop antenna, the reception of some stations may be improved by turning the receiver in different directions.

CONTROL KNOBS: This instrument is equipped with four knobs to control the operation. The extreme left knob is the "Tone" control. This control has three positions. The left hand position is "Normal" usually used for speech. The center position is "Medium" and is used for music. The right hand position is "Low" and is used to attenuate the high notes and increase the low notes. The second knob is the "Tuning" selector. This knob may be moved to the right or left to select the desired station. By mentally adding a zero to the numbers on the dial, the result will be read directly in kilocycles, i. e. 60 + 0 = 600 KC or 170 + 0 = 1700 KC.

The first knob to the right of the speaker opening is the "Volume" control and also the "OFF-ON" switch. In the extreme left hand position the switch is in "OFF" position. Turn this knob to the right and a click will be heard. This indicates that the power has been turned on. Allow about 30 seconds for the tubes to heat up and the instrument will be ready for operation. To increase volume, turn this knob to the right.

The extreme right hand knob is the "Radio-Phono" switch. The right hand position is for "Radio" operation and the left hand position is for "Phono" operation.

SD-77 U



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MODEL 5G-563

ALIGNMENT DATA

Remove the chassis from the cabinet. A Signal Generator with the following frequencies is required: 455 KC, 1400 KC and 1720 KC.

The receiver volume control should be turned to maximum during the I.F. and all subsequent alignments to keep the A.V.C. from working and giving false readings. Turn the tone control to complete left hand position. Keep the generator output as low as possible to prevent overloading.

Connect an output meter across the voice coil of the speaker.

Connect a 20,000 ohm resistor across the loop connector terminals to reflect proper loop impedance.

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 must be connected to the floating ground buss under the chassis. Turn the gang condenser to complete minimum capacity. Adjust the generator to 455 KC and adjust the trimmers of the 1st and 2nd I.F. transformers until a maximum reading is noted on the output meter.

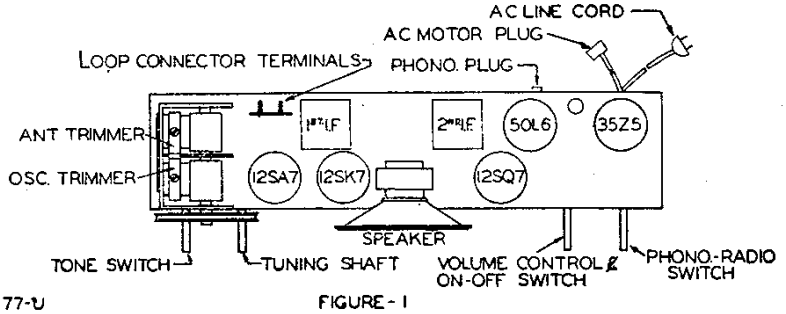
SECOND STEP: With the leads from the generator connected in the same manner as in I.F. alignment, adjust the signal generator to 1720 KC. The "O.S.C." trimmer is located on the front section of the gang condenser. Adjust this trimmer until the signal is tuned in. The gang condenser should be at complete minimum capacity for this setting.

THIRD STEP: Remove the generator leads from the chassis. Remove the 20,000 ohm resistor from the loop connector terminals. Reinstall the chassis in the cabinet, connect the loop leads, motor plug and phono pickup leads.

Connect the generator leads to a transmitting loop, made of a few turns of wire, and loosely couple to the receiver loop antenna which is located on the back end of the cabinet. Adjust the generator to 1400 KC. Rotate the tuning control until this signal is tuned in. The "ANT." trimmer is located on the rear section of the gang condenser. Adjust this trimmer until a maximum signal is noted on the output meter.

No further adjustment should be necessary, unless the receiver has been damaged, as the coils and tuning condenser have been specially handled at the factory to insure proper alignment at the lower frequencies.

TUBE AND TRIMMER LOCATION



TL-77-U

FIGURE-1

PART NO.		DESCRIPTION	PART NO.		DESCRIPTION	PART NO.		DESCRIPTION
PC-2	C-1	.05MFD. CONDENSER 200 V.	IR-1	R-8	470Ω RESISTOR 1/2W. 20 %	SW-2	S-1	TONE SWITCH
PC-8	C-2	.1 MFD. CONDENSER 400 V.	IR-42	R-9	1000Ω RESISTOR 1 W. 10 %		S-2	SWITCH ON VOLUME CONTROL
MC-4	C-3	.00005MFD. MICA	IR-17	R-10	33 Ω RESISTOR 1/2 W. 20 %	SW-1	S-3	PHONO-RADIO SWITCH
PC-4	C-4	.25MFD. CONDENSER 200V.	IR-11	R-11	470MΩ RESISTOR 1/2 W. 20%		S-4	SWITCH ON RECORD CHANGER
MC-5	C-5	.0005MFD. MICA	IR-15	R-12	2200Ω RESISTOR 1/2 W. 20%	AC-M-7	M	RECORD CHANGER MOTOR
PC-5	C-6	.05MFD. CONDENSER 400V.	GC-5	G-1	GANG CONDENSER	AC-PU-7	P	CRYSTAL PICKUP ARM CARTRIDGE S-1
MC-2	C-7	.0001MFD. MICA		G-2		PB-2	PB	110 V., 7½ W. PILOT BULB
PC-7	C-8	.01MFD. CONDENSER 400V.		G-3	ANT. TRIMMER	CO-2	PL	LINE CORD
EC-14	C-9	20MFD. 150WV ELECTROLYTIC		G-4	OSC. TRIMMER			
	C-10	40MFD.						
	C-11	40MFD.						
			L1-6	T-1	INPUT I.F. TRANSFORMER			
IR-20	R-1	220MΩ RESISTOR 1/2W. 20 %	L1-7	T-2	OUTPUT I.F. TRANSFORMER			
IR-9	R-2	22 MΩ RESISTOR 1/2 W. 20%		T-3	OUTPUT TRANSFORMER			
IR-10	R-3	47 MΩ RESISTOR 1/2 W. 20%						
IR-23	R-4	3.3MEGΩ RESISTOR 1/2 W. 20%	LL-17	L-1	LOOP ANT.			
IR-12	R-5	1 MEGΩ RESISTOR 1/2 W. 20%	LO-14	L-2	OSC. COIL			
IR-13	R-6	2.2MEGΩ RESISTOR 1/2 W. 20%						
VC-4	R-7	1 MEG. VOLUME CONTROL	SPK-12	SP	5" P.M. SPEAKER			

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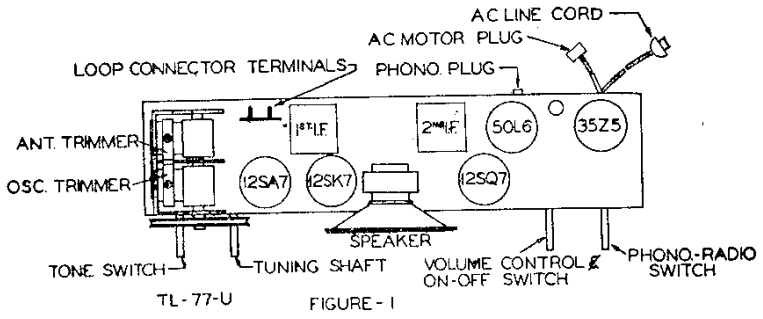
MODELS 5F-560, 5F-561, 5G-563

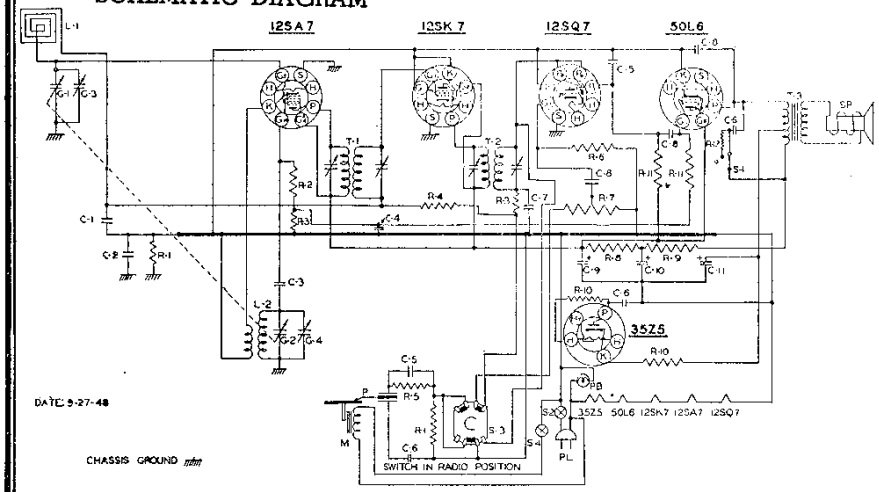
PART NO.		DESCRIPTION	PART NO.		DESCRIPTION	PART NO.		DESCRIPTION
PC-2	C-1	.05MFD. CONDENSER 200 V.	IR-1	R-8	470Ω RESISTOR 1/2W. 20 %	SW-2	S-1	TONE SWITCH
PC-8	C-2	.1MFD. CONDENSER 400 V.	IR-42	R-9	1000Ω RESISTOR 1 W. 10 %		S-2	SWITCH ON VOLUME CONTROL
MC-4	C-3	.0005MFD. MICA	IR-17	R-10	33 Ω RESISTOR 1/2 W. 20 %	SW-1	S-3	PHONO RADIO SWITCH
PC-4	C-4	.25MFD. CONDENSER 200 V.	IR-11	R-11	470Ω RESISTOR 1/2 W. 20 %		S-4	SWITCH ON RECORD CHANGER
MC-5	C-5	.0005MFD. MICA	IR-15	R-12	2200Ω RESISTOR 1/2 W. 20%	AC-M-7	M	RECORD CHANGER MOTOR
PC-5	C-6	.05MFD. CONDENSER 400 V.	GC-5	G-1	GANG CONDENSER	AC-PU-7	P	CRYSTAL PICKUP ARM CARTRIDGE SET
MC-2	C-7	.001MFD. MICA		G-2		PB-2	PB	110 V. 7½ W PILOT BULB
PC-7	C-8	.01MFD. CONDENSER 400 V.		G-3	ANT. TRIMMER	CO-2	PL	LINE CORD
EC-14	C-9	20MFD.		G-4	OSC. TRIMMER			
	C-10	40MFD. 150 W.V. ELECTROLYTIC						
	C-11	40MFD.	LI-5	T-1	INPUT I.F. TRANSFORMER			
IR-20	R-1	220M RESISTOR 1/2 W. 20 %	LI-7	T-2	OUTPUT I.F. TRANSFORMER			
IR-9	R-2	22 M RESISTOR 1/2 W. 20%		T-3	OUTPUT TRANSFORMER			
IR-10	R-3	47 M RESISTOR 1/2 W. 20%						
IR-23	R-4	.33MEG RESISTOR 1/2 W. 20%	LL-17	L-1	LOOP ANT.			
IR-12	R-5	1 MEG. RESISTOR 1/2 W. 20%	LO-14	L-2	OSC. COIL			
IR-13	R-6	22MEG RESISTOR 1/2 W. 20%						
VC-4	R-7	1 MEG. VOLUME CONTROL	SPK-12	SP	5" P.M. SPEAKER			

TUBE AND TRIMMER LOCATION



TL-77-U FIGURE-1

SCHEMATIC DIAGRAM SD-77 U



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