

Allied Radio Corp.

Model: 5F-525

Chassis:

Year: Pre 1950

Power:

Circuit:

IF:

Tubes:

Bands:

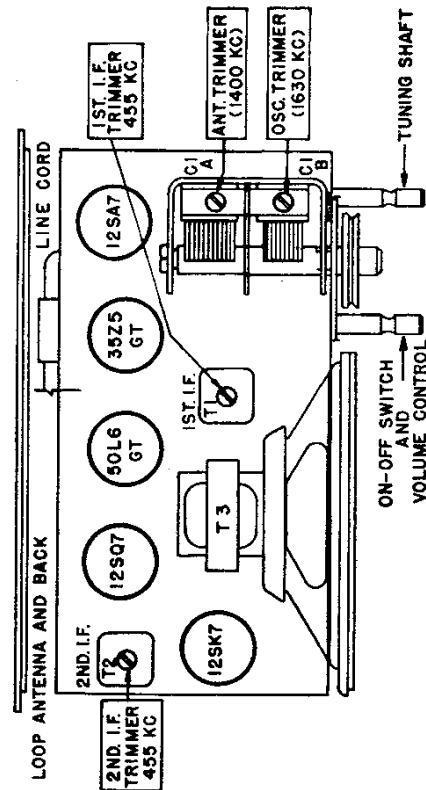
Resources

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MODELS 5F-525,
5F-526

ALLIED RADIO CORP.

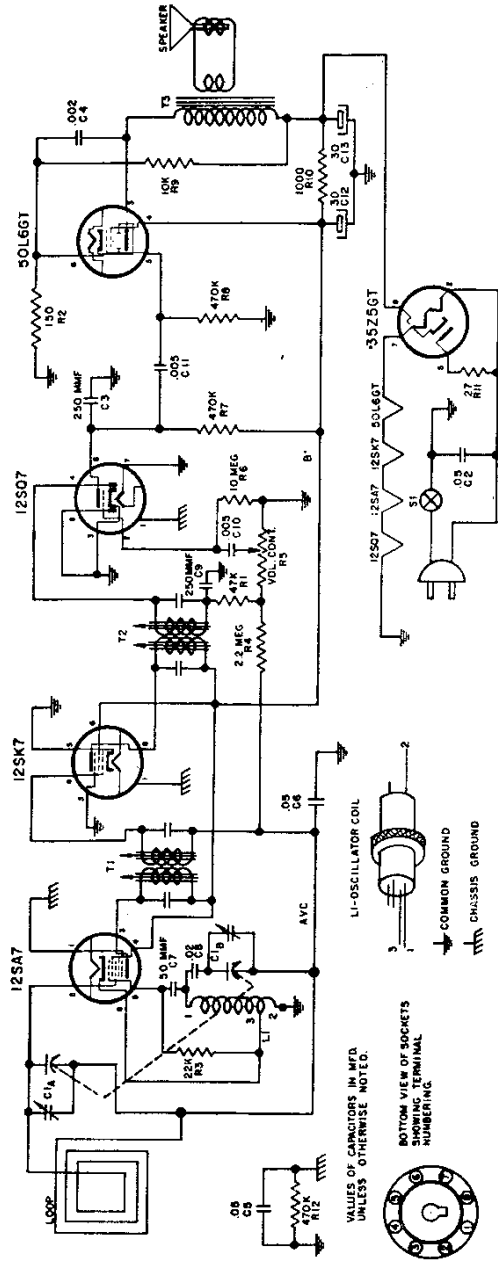


ALIGNMENT PROCEDURE
(Continued)

CAUTION: This is an A.C.-D.C. receiver and when clipping the set it is necessary to isolate the Signal Generator or the Receiver from the line by use of a transformer, or place a 2 MFD. condenser in both test leads of the Signal Generator.

Position of Variable	Generator Frequency	Dummy Ant. Mfd.	Generator Connections	Trimmer Adjustment	Trimmer Function
Fully open	455 KC	.1	*12SA7 Grid (Stator of C1A)	T1	Input I.F.
Fully open	455 KC	.1	*12SA7 Grid (Stator of C1A)	T2	Output I.F.
Fully open	1630 KC	.1	*12SA7 Grid (Stator of C1A)	C1B	Oscillator
Tune in signal from generator	1400 KC		Loosely coupled to loop antenna	C1A	Antenna

*Connect ground lead of signal generator to common negative.



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INSTALLATION

The loop antenna incorporated in the receiver is sufficient for all normal reception.

When using a DC power supply and after allowing sufficient time for the tubes to warm up the receiver does not operate, remove the line cord plug from the receptacle and reverse. Replace the plug in the reversed position and allow tubes to warm up at which time the receiver will operate.

If an excessive hum is noticed when operating from an AC power source, reverse the line cord plug to determine which position gives the best results.

NOTE: All loop antennas are somewhat directional in their characteristics.

Reception can sometimes be improved and/or local interference reduced by turning the set in a different direction.

OPERATION

To turn the receiver on, rotate the on-off switch and volume control knob (left hand control) clockwise about one-half its range. This supplies power to the receiver. Allow about thirty seconds for the tubes to warm up after which the desired station may be tuned by rotating the station selector (right hand control).

For best tone, tune the desired station with the volume control turned low. This enables you to get the exact point where the station comes in best. Then, adjust the volume to the desired level with volume control.

DESCRIPTION

This model is a 4 tube (plus rectifier) superhetrodyne radio receiver designed for use on 117 volts 60 cycle AC or 117 volts DC power supply.

The tubes used are:—

- 1—12SA7 Oscillator Converter 1—12SQ7 AVC Detector and 1st Audio
- 1—12SK7 I.F. Amplifier
- 1—35Z5GT Power Rectifier 1—50L6GT Power Output

This receiver covers the frequency range from 540 kilocycles to 1600 kilocycles (KC).

ALIGNMENT PROCEDURE

The following alignment procedure is for use only by competent servicemen having the proper equipment.

The alignment should be made with volume control fully on, and the output from the signal generator as low as possible, to prevent A.V.C. action from interfering with correct alignment.

With the output meter connected across the voice coil of the speaker, the output meter reading for 50 milli-watts is .4 volts using a signal which is modulated 400 c.p.s.

Adjust all trimmers for maximum output. Repeat alignment procedure given below as a final check.

PARTS LIST

CODE	PART NO.	DESCRIPTION	CODE	PART NO.	DESCRIPTION
R7, R8, R12	A60-602	470K ohm 1/2 watt resistor	C1A, C1B	B19-194	Variable condenser
R9	A60-696	10K ohm 1 watt resistor	C2, C5	A16-158	.05 MFD 400 volt condenser
R10	A60-732	1000 ohm 1 watt resistor	C3, C9	A15-176	250 MMF mica condenser
R11	A60-690	27 ohm 1/2 watt resistor	C4	A16-155	.002 MFD 600 volt condenser
T1	A10-475	1st I.F. transformer	C6	A16-152	.05 MFD 200 volt condenser
T2	A10-479	2nd I.F. transformer	C7	A15-175	50 MMF mica condenser
L1	B10-502	Oscillator coil	C8	A16-150	.02 MFD 400 volt condenser
	A42-451	Cabinet, molded, brown	C10, C11	A16-153	.005 MFD 600 volt condenser
	D42-424	Cabinet, molded, ivory	C12, C13	B18-283	30-30 MFD 150 volt electrolytic condenser
	B67-510	Dial scale, paper	R1	A60-685	47K ohm 1/2 watt resistor
	A52-243	Knob, tenite, black	R2	A60-686	150 ohm 1/2 watt resistor
	A52-222	Knob, tenite, ivory	R3	A60-639	22K ohm 1/2 watt resistor
	S84-265	Loop and back	R4	A60-684	2.2 megohm 1/2 watt resistor
	A58-56	Pointer, "Knight"	R5	A24-174	Volume control and switch, 1 megohm
	E73-383	Speaker, 5", P.M. (includes output transformer)	R6	A60-663	10 megohm 1/2 watt resistor