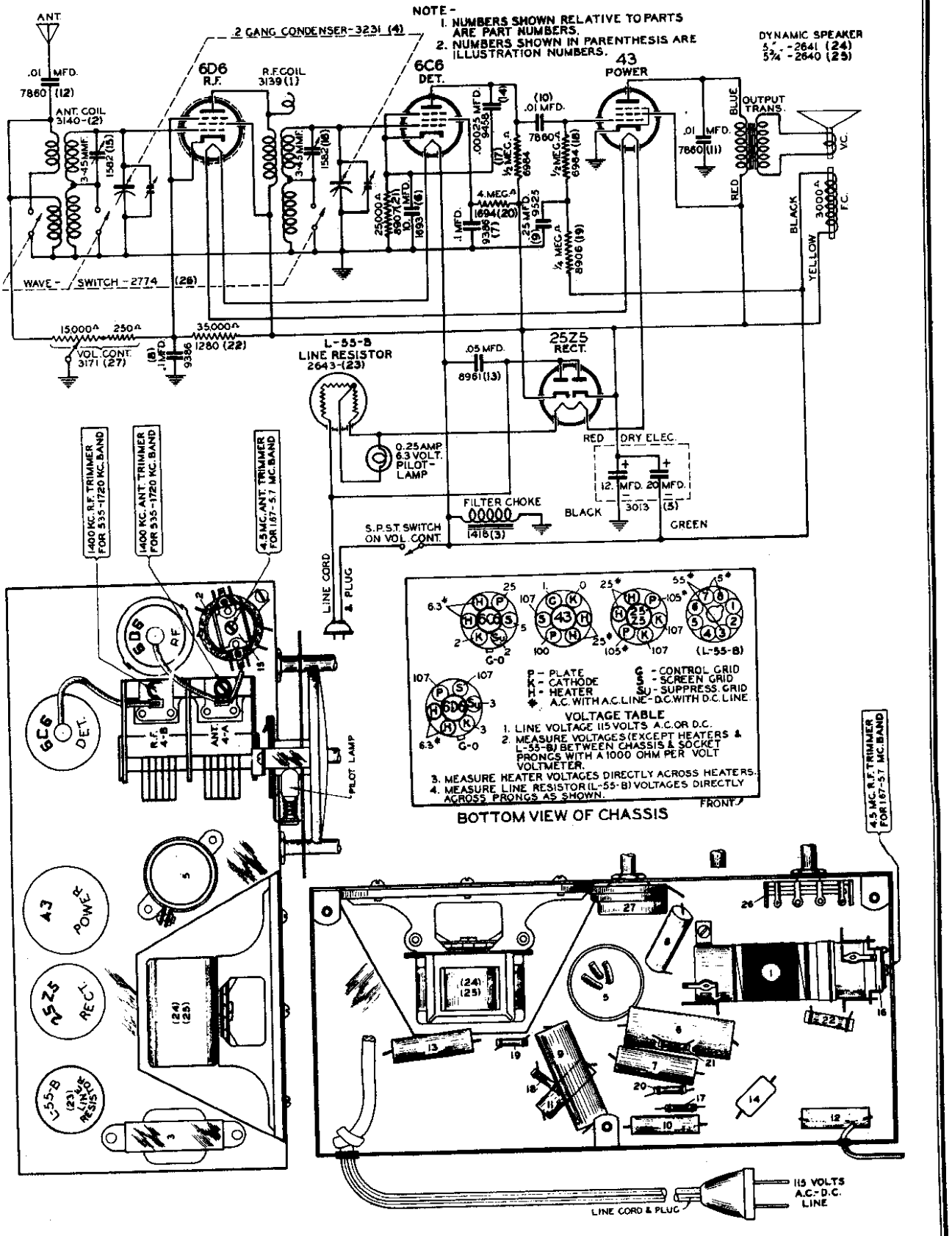
Schematic, Socket Trimmers, Voltage Layout

ALLIED RADIO CORP.

MODELS A9740, A9825
Chassis 69U



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Courtesy Nostalgia Air

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Alignment, Coils
Parts

Lack of sensitivity, selectivity or 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, inadequate or excessively long antenna, etc. Never attempt to realign set until all other possible sources of trouble have been first thoroughly investigated and definitely proven not to be the cause.

NOTE: BE SURE TO FOLLOW PROCEDURE CAREFULLY WHEN ALIGNING, OTHERWISE THE RECEIVER WILL BE INSENSITIVE AND THE DIAL CALIBRATION WILL BE INCORRECT.

IT IS ABSOLUTELY NECESSARY THAT AN ACCURATELY CALIBRATED TEST OSCILLATOR WITH SOME TYPE OF OUTPUT MEASURING DEVICE BE USED WHEN ALIGNING THE RECEIVER.

ALIGNING 1720-535 KILOCYCLE BAND:

(a) Connect the ground lead of the test oscillator to the rotor frame of the gang condenser and the other test oscillator lead to the receiver antenna lead through a .00025 Mfd. series condenser.

(b) Check tuning dial adjustment by turning gang condenser until plates touch maximum capacity stop, (completely in mesh) at which point the dial needle must be exactly even with the last line at the low frequency end of the dial calibration. If the dial needle does not point exactly to the last line, move needle to correct position.

(c) Adjust band selector switch for operation on 1720-535 kilocycle band, set test oscillator frequency and receiver dial to 1400 kilocycles.

(d) Adjust trimmers mounted on top of gang condenser for maximum 1400 kilocycle test oscillator signal output.

(e) Check dial calibration and sensitivity at 1000 kilocycles, 700 kilocycles and 600 kilocycles. If gang condenser plates have not been bent and if antenna and R.F. coils are in good condition the gang condenser will properly track all over the band. If sensitivity is low and dial calibration incorrect, it may be necessary to bend the condenser plates at above frequencies to properly align the receiver.

IMPORTANT: Bending of plates is to be avoided if at all possible.

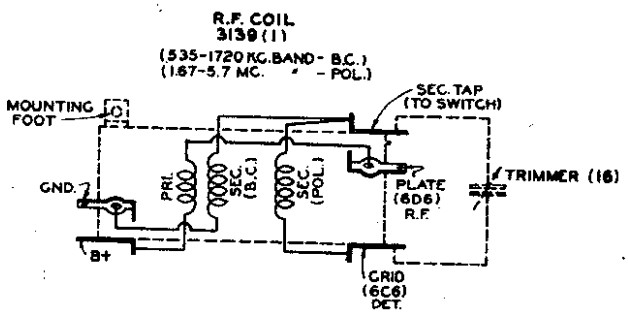
ALIGNING 1.67-5.7 MEGACYCLE BAND:

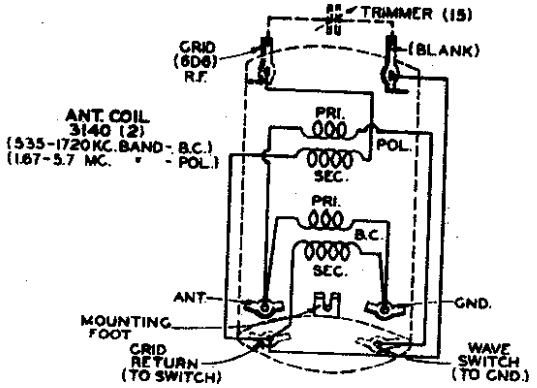
(a) Replace .00025 Mfd. test oscillator lead series condenser with a 400 ohm resistor. Adjust band selector switch for operation on 1.67 to 5.7 megacycle band and tune receiver dial and set test oscillator frequency to EXACTLY 4.5 megacycles.

(b) Adjust the two trimmers mounted on the antenna and R.F. coil, one of which is located underneath the chassis, and one on top of the chassis for maximum 4.5 megacycle test oscillator signal response.

(c) Check dial calibration at 3 megacycles and 1.7 megacycles, BUT DO NOT BEND GANG CONDENSER PLATES ON THIS BAND.

(d) To assure adequate sensitivity regeneration is present on this band. Receiver should oscillate around 2.5 megacycles when the volume control is at maximum volume position. If oscillation cannot be controlled with volume control, oscillation may be reduced by spreading out or uncoiling a few turns of the coupling coil, which is located underneath the chassis between the wave switch and volume control.





Illus. No.	Part No.	Part Name	Description	List Price
1	3139	Coil	R.F.	$ .83
2	3140	Coil	Antenna	.83
3	1418	Choke	Filter	.92
4	3231	Condenser	Two Gang Tuning	2.65
5	3013	Condenser	Dry Electrolytic (1-12 & 1-20 Mfd.)	1.50
6	1693	Condenser	Dry Electrolytic Tubular 10 Mfd.	.75
7	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
8	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
9	9525	Condenser	Tubular .25 Mfd. 200 Volt	.24
10	7860	Condenser	Tubular .01 Mfd. 400 Volt	.17
11	7860	Condenser	Tubular .01 Mfd. 400 Volt	.17
12	7860	Condenser	Tubular .01 Mfd. 400 Volt	.17
13	8961	Condenser	Tubular .05 Mfd. 400 Volt	.19
14	9458	Condenser	Mica .00025 Mfd.	.21
15	1582	Condenser	Trimmer (3-45 M.M.F.)	.21
16	1582	Condenser	Trimmer (3-45 M.M.F.)	.21
17	6984	Resistor	Carbon 500,000 Ohm 1/3 Watt	.19
18	6984	Resistor	Carbon 500,000 Ohm 1/3 Watt	.19
19	8906	Resistor	Carbon 250,000 Ohm 1/3 Watt	.19
20	1694	Resistor	Carbon 4 Meg. Ohm 1/3 Watt	.19
21	8907	Resistor	Carbon 25,000 Ohm 1/3 Watt	.19
22	1280	Resistor	Carbon 35,000 Ohm 1/2 Watt	.19
23	2643	Resistor	Line with Tube Type Octal Base Marked L-73-B	.75
24	2641	Speaker	Dynamic (5")	4.75
25	2640	Speaker	Dynamic (5¾")	5.25
26	2774	Switch	Band Selector	.69
27	3171	Volume Control	With On-Off Switch	1.05
			MISCELLANEOUS	
	2250	Bulb	6.3 Volt .250 Amp. Dial Light	.19
	3111	Dial Assembly	Complete Tuning Assembly (Mention Required Name)	2.75
	3112	Dial Scale	Calibrated Scale (Mention Required Name)	.50
	3300	Glass	For Dial	.35
	3031	Knob	Small	.19
	3032	Knob	Large	.18

Prices are subject to change without notice.

Part No. 69U

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