

NOTE:
RANGE SWITCH SHOWN IN BROADCAST POSITION

VOLTAGE TABLE

LINE	TYPE OF CHART	1 st PHASE VOLTAGE	2 nd PHASE VOLTAGE	SCREEN VOLTAGE	CONTROL VOLTAGE	PLATE VOLTAGE
6K7G	Tune	235	—	92	0	6.2
6K8	R.F.	225	—	92	0	6.2
6K7G	1st. D.C.	225	—	92	0	6.2
6K7G	1st. I.F.	235	—	92	0	6.2
6K7G	2nd. I.F.	235	—	92	0	6.2
6F8G	1 st I.V.	120	150	—	—	6.2
6H6G	R.F. D.C.	—	—	—	NOTE 1	6.2
6Q7G	1st. A.F.	85	—	—	1-3	6.2
6V6G	R.F. Output	225	—	235	13-5	6.2
6V6G	R.F. Output	225	—	235	13-5	6.2
5Y4G	Rect. A.C.	320	330	—	—	5.0
6U5	Tuning Eye	37	—	—	—	2.0

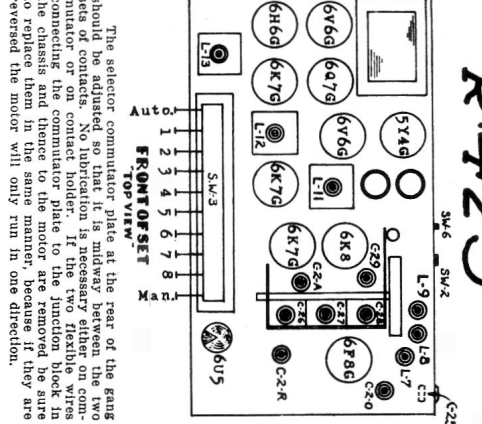
NOTE: 1
These cathodes are high resistance to ground, check voltages across R-11

NOTE: Voltages measured from tube socket to ground (chassis) with 1000 ohm per volt meter on highest readable range.

- Close variable condenser and set dial pointer to last line there.
- Set dial pointer to approximately 1000 K.C. with a 465 K.C. signal from test oscillator connected through .05 microfarad blocking condenser to the grid of 6K8 tube, adjust the I.F. trimmer screws (L11, L12 and top screw of L13) for maximum output.
- With the 465 K.C. signal, connected to the antenna terminal through a standard broadcast dummy antenna or a 200 mmfd condenser, adjust wave trap C25 for minimum signal. For this adjustment the dial pointer should be set to 800 K.C. and a very strong signal should be used.

- Turn range switch to 31 meter band position and set dial pointer to 9.50 M.C. and with test oscillator set for 9.50 M.C. adjust L7 iron core oscillator screw for resonance.
- Turn range switch to 25 meter band position and set dial pointer to 11.80 M.C. and with test oscillator set at 11.80 M.C. adjust L8 iron core oscillator screw for resonance.
- Turn range switch to 19 meter band position and set dial pointer to 15.20 M.C. with test oscillator set at 15.50 M.C. adjust L9 iron core oscillator screw for resonance.

- Turn range switch to broadcast band position.
- With test oscillator set at 600 K.C. and dial pointer set to 600 K.C., adjust series pad condenser C24 to bring in signal.
- Tune set to 1500 K.C. Also test oscillator to 1500 K.C. and adjust C25 (oscillator trimmer) to bring in signal.
- Adjust gain trimmers numbers C26 and C27 for maximum output.
- Turn receiver to 600 K.C. with 600 K.C. signal from test oscillator, tune eye condenser while adjusting C29 for maximum output.
- Repeat operation number 3 at 1500 K.C.



MODEL R.425

DIFFERENTIAL FREQUENCY= 465 K.C.

IMPORTANT: Before the short wave can be properly aligned, the tuning eye should be turned on and tubes warmed up for at least 15 minutes.

- Turn the range switch to the 49 meter band position and set dial to 6.10 M.C.
- Connect test oscillator to antenna terminal through 400 ohm dummy antenna with frequency of oscillator adjusted to 6.10 M.C.
- Adjust air trimmer screw C31(0) for resonance, then C2(A) and C2(B) antenna and R.F. air trimmer should be adjusted for maximum output.

31 METER BAND

- Turn range switch to 31 meter band position and set dial pointer to 9.50 M.C. and with test oscillator set for 9.50 M.C. adjust L7 iron core oscillator screw for resonance.

25 METER BAND

- Turn range switch to 25 meter band position and set dial pointer to 11.80 M.C. and with test oscillator set at 11.80 M.C. adjust L8 iron core oscillator screw for resonance.

19 METER BAND

- Turn range switch to 19 meter band position and set dial pointer to 15.20 M.C. with test oscillator set at 15.50 M.C. adjust L9 iron core oscillator screw for resonance.