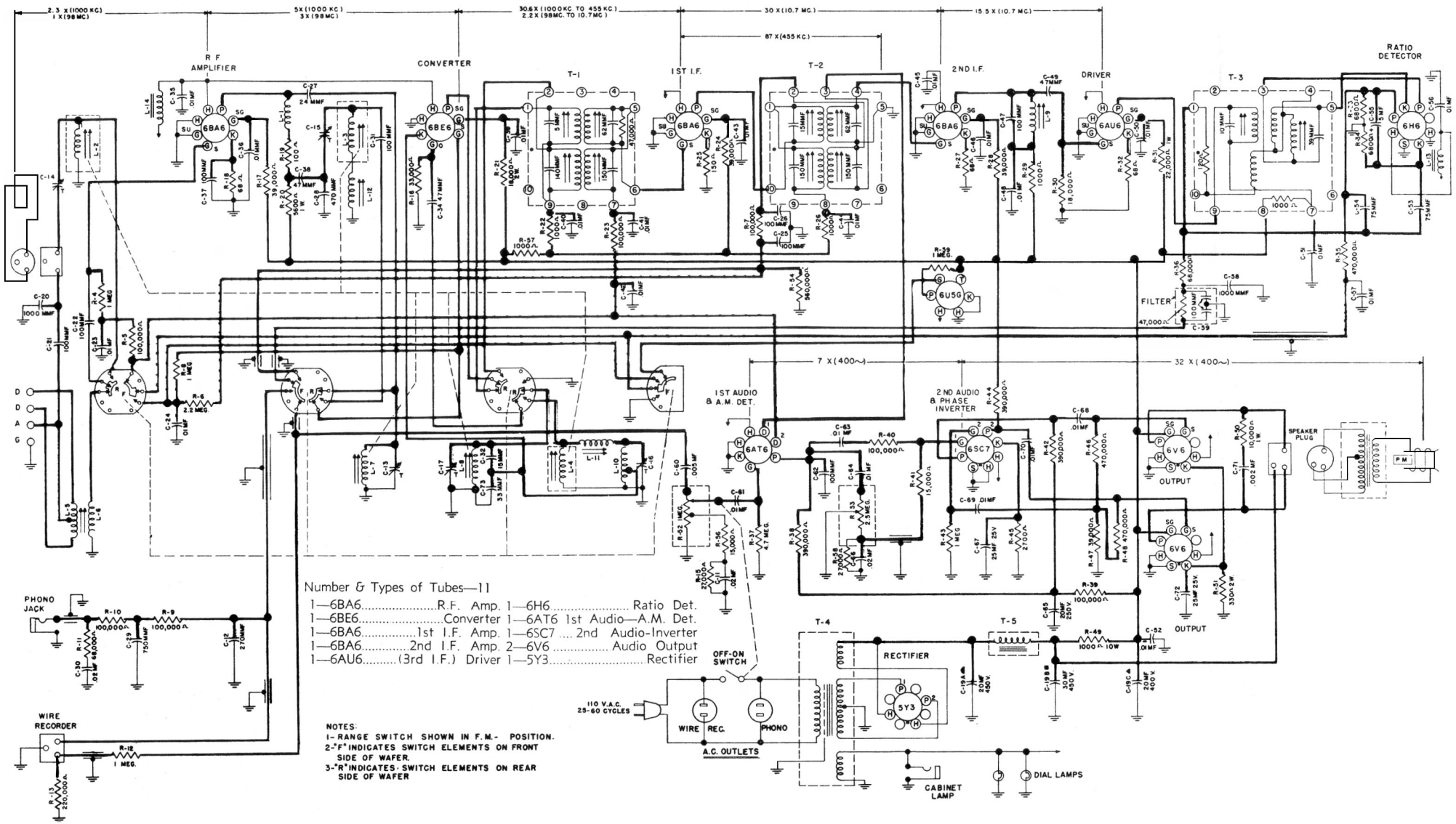
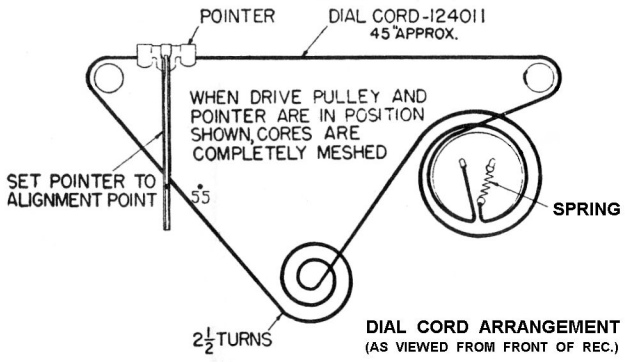


Stromberg-Carlson Model 8122 AM / FM / Phono Receiver Schematic

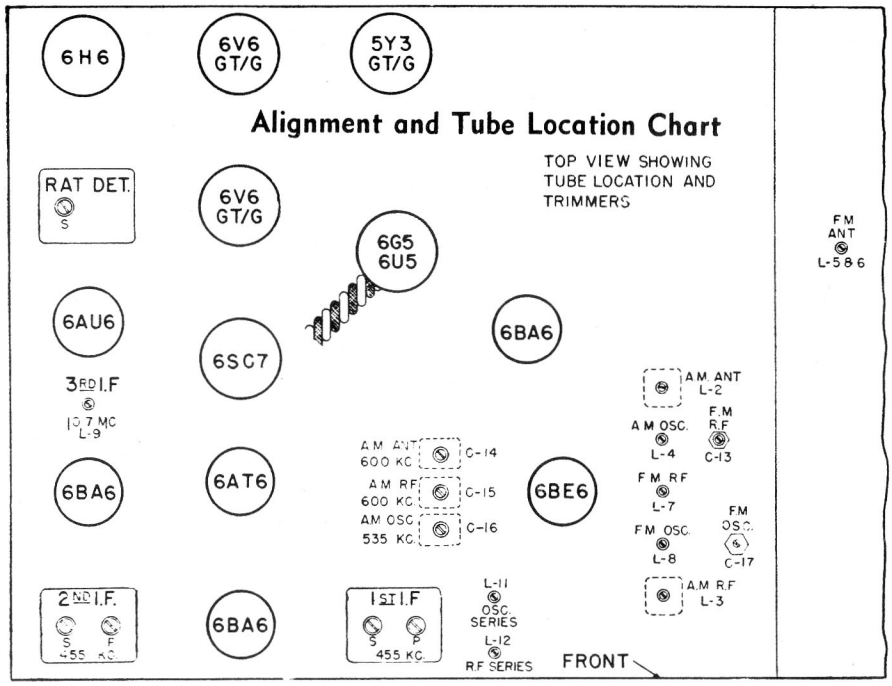
RCC - Stromberg-Carlson Data Sheet 99 - 1948 - 49

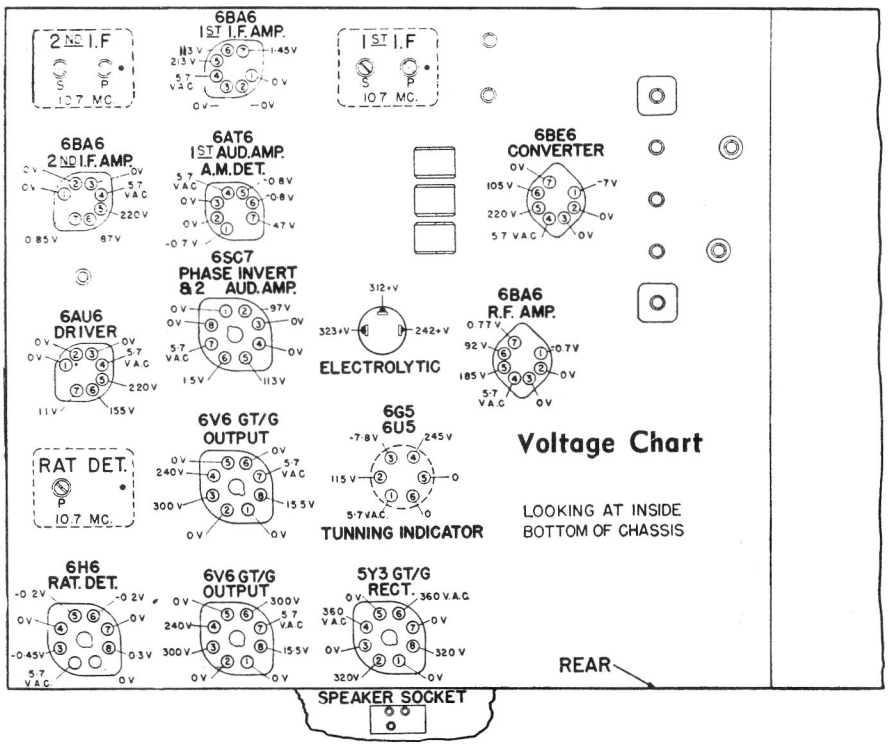
Dial Stringing Chart



DIAL CORD ARRANGEMENT
(AS VIEWED FROM FRONT OF REC.)

Alignment and Tube Location Chart



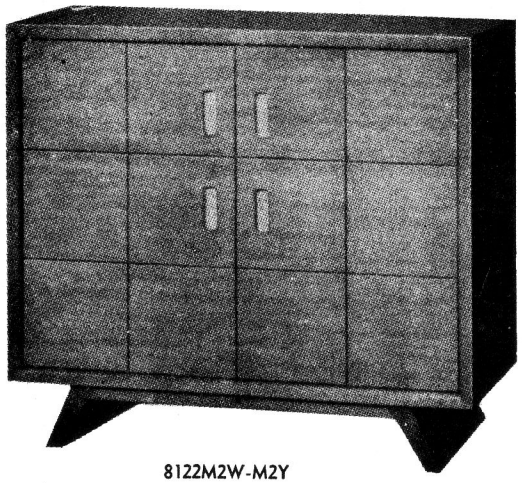


ALIGNMENT PROCEDURE 8122

Band and Pointer Setting	Signal Generator Setting	Input and Dummy	Output	Adjustments
		A.M. I.F. ALIGNMENT		
A.M. Low end of dial	455 kc. 30% modulated at 400 cycles	1 mfd. to pin #7 6BE6 tube	Output meter	Advance attenuator until signal is heard in speaker. Adjust iron cores in top side of IF Transformers for maximum audio output as shown on meter; keep input reduced so that output is approximately 500 milliwatts. Average sensitivity 50 microvolts.
		F.M. I.F. ALIGNMENT		
F.M. Low end of dial	10.7 megacycles unmodulated	5000 mmfd. pin #1 grid 6BA6 tube	V.T.V.M. A.V.C. terminal	1. Advance attenuator until an output of approx. 2.0 volts is read on meter (note: There is a normal standing bias of .8 to 1.0 volt. Make sure that meter needle follows attenuator up or down). 2. Adjust iron core in 3rd IF coil (brass screw) for maximum reading on meter, keeping input low enough that output remains at approx. 2 to 2½ volts. 3. Adjust iron core in lower side of det. trans. for max. reading, observing same precautions as before. 4. Change polymeter from A.V.C. terminal to audio output terminal. Set attenuator to .1 volts. Adjust iron core in top side of det. transformer for zero reading on meter. (Note. Make sure that further adjustment causes output to increase either in a positive or a negative direction). 5. Repeat steps 3 and 4 until further adjustment will not improve the readings.
F.M. Low end of dial	10.7 megacycles unmodulated	.1 mfd to pin #7 (grid) 6BE6 tube	V.T.V.M A.V.C. terminal	Keeping input at a level that gives an output reading of approx. 2 volts, adjust the iron cores on the lower side of the 1st and 2nd. IF transformers for max. reading on meter. Adjust in this order and go over them once only, pri. of 1st. IF, sec.of 2nd. IF, sec. of 1st. IF, pri. of sec. IF. This staggers the tuning and gives a good IF response of sufficient width.
		A.M. R.F. ALIGNMENT*		
With inductive tuner adjusted to extreme low frequency position, set pointer coincident with the two markers on the left end of the dial scale.				
A.M. 600 kc.	600 kc. 30% modulated at 400 cycles	200 mmf. to antenna terminal	Output meter	Adjust C-14, C-15 and C-16 so that maximum output is obtained.
A.M. 1600 kc.	1600 kc.	200 mmf. to antenna terminal	Output meter	Adjust L-11 and L-12 for maximum output.
A.M. 1000 kc.	1000 kc.	200 mmf. to antenna terminal	Output meter	Adjust core of permeability-tuning oscillator coil by means of second screw from front in tuner carriage to bring in signal generator signal at 1,000 kc. calibration point on the dial. It is advisable to "overshoot" a little on this adjustment. Adjust R.F. and antenna permeability tuning cores by means of 1st and 5th screws from front of tuner carriage for maximum output. Check spot in the dial at which 1,000 kc. signal is now received. If badly out of calibration still, repeat adjustments.
		F.M. R.F. ALIGNMENT**		
F.M. 99mc.	99 mc. Frequency modulated 22.5 kc. deviation	2-150 ohm carbon resistors between terminals D-D and signal generator	Output meter	Adjust C-17 for maximum output, adjust C-13 for maximum output, rocking the generator to allow for oscillator pulling. Adjust core of L5-L6 for maximum output.

* 1. Adjust inductive tuner to extreme low frequency position.
2. Adjust the two FM cores by means of their adjusting screws until the ends of the cores are coincident with the low end of their respective copper strip coils.
3. Glyptal adjusting screws.

** Set underside of inductive tuner carriage to 0.7 inches above top surface of the inductive tuner mounting bracket.
Adjust the three broadcast band cores by means of the screw adjustment until the wire end of each core is coincident with the end of its coil form.
Glyptal adjusting screws to prevent movement.



8122M2W-M2Y

8122P6M-P6W

MODEL	CHASSIS	CABINET	SPEAKER	PHONO EQUIPMENT
8122PGM	02017	02209	155981	148992—25 cycle 148993—60 cycle
8122PGW	02017	02020	155981	148992—25 cycle 148993—60 cycle
8122M2W	02017	02073	155981	148992—25 cycle 148993—60 cycle
8122M2Y	02017	02074	155981	148992—25 cycle 148993—60 cycle