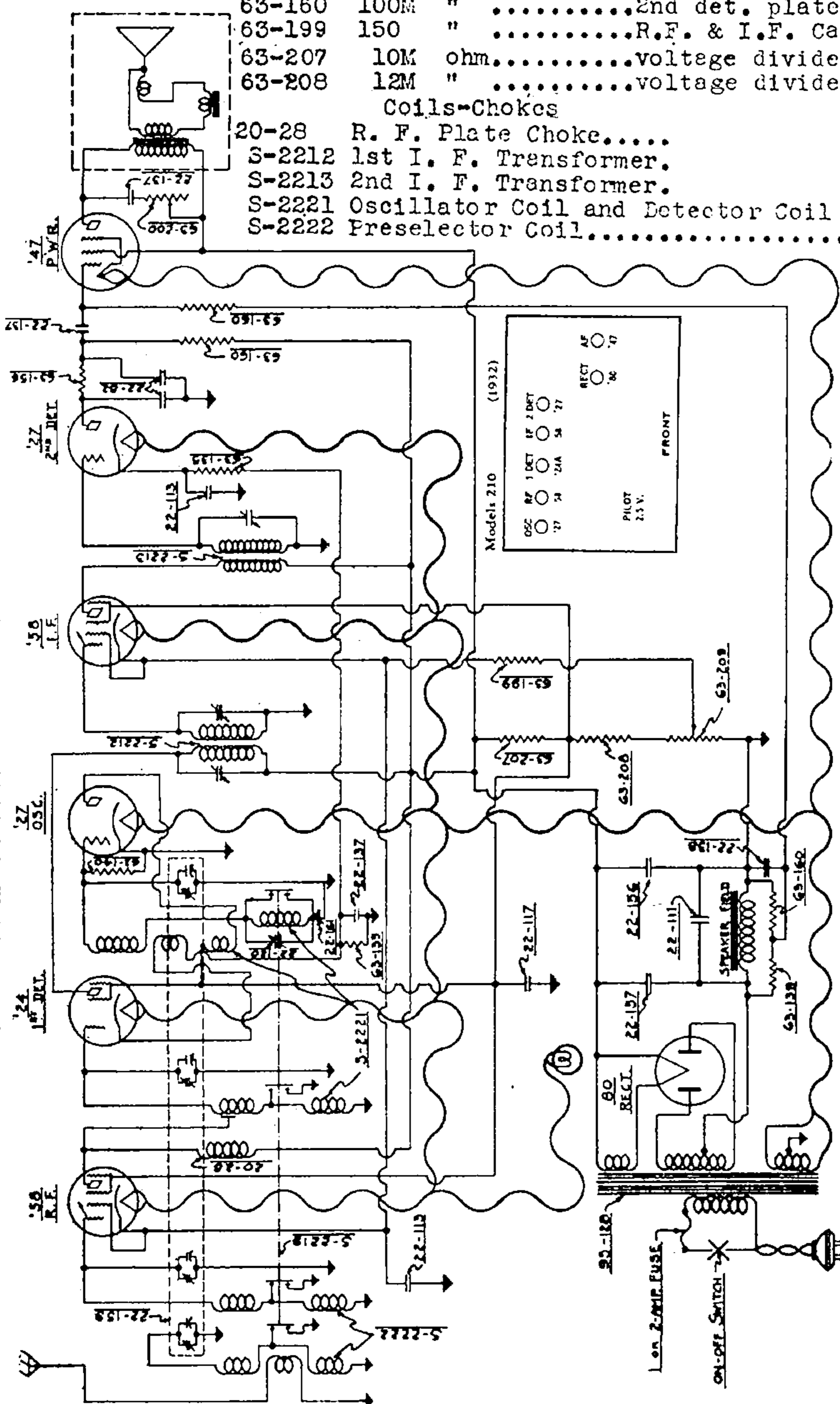


ZENITH RADIO CORP.

MODELS 210-5, 211-5, 270-5
Schematic

- Resistors
- 63-135 25M ohm.....1st & 2nd Det. Cathode...
 - 63-139 500M "power grid.....
 - 63-140 1 megoscillator grid.....
 - 63-156 10M ohm.....2nd det. plate.....
 - 63-160 100M "2nd det. plate power grid
 - 63-199 150 "R.F. & I.F. Cathode.....
 - 63-207 10M ohm.....voltage divider
 - 63-208 12M "voltage divider

- Coils-Chokes
- 20-28 R. F. Plate Choke.....
 - S-2212 1st I. F. Transformer.
 - S-2213 2nd I. F. Transformer.
 - S-2221 Oscillator Coil and Detector Coil (below chassis)
 - S-2222 Preselector Coil.....(above chassis)



- Condensers
- 22-82 .001 mfd. 500 volt.....two used, 2nd det. plate
 - 22-111 .03 " " " "speaker field.
 - 22-113 .5 " "two used.
 - 22-117 .5 " "1st Det. Screen & R.F..
 - 22-137 .5 mfd. 400 volt.....three used.
 - 22-138 .2 " "power grid.
 - 22-156 6. " "filter.....
 - 22-157 8. " "filter.....
 - 22-159 Four Gang Variable.....
- PEAK FREQUENCY 125 K.C.
- 200 - 2100 METERS
- STANDARD AND LONG WAVE
- MODELS 210-5 211-5 270-5

has been changed from Part No. S-2222 to Part No. S-2587. Condenser Part No. 22-137, listed on pages 3-1 and 2729 as having a value of 0.5 mf, should be listed as 0.05 mf; please make this change in your Manual. Also note the additional model, Model 510-5, using Chassis 2046.

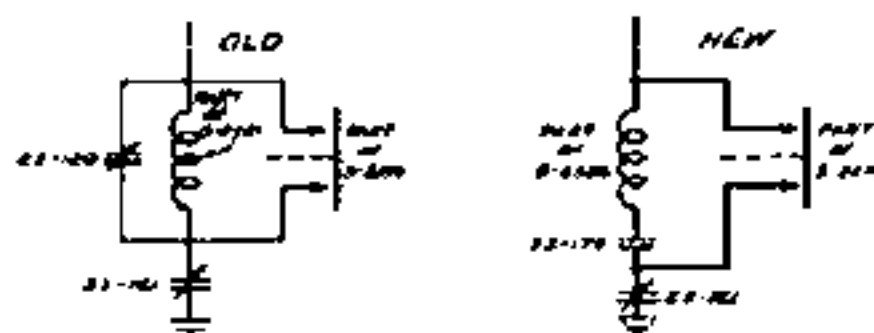
The following table of d-c voltages applies to Chassis 2046. All readings are taken from socket connections to ground, using a 1000 ohms-per-volt meter; the volume control is turned to the maximum position and the line voltage corresponding to these readings is 117 volts.

Tube Type	Position	Plate Volt.	Cath. Volt.	Screen Volt.	Supp. Volt.	Plate Current
58	RF	260	3.5	120	3.5	9.0
24A	1st Det.	260	5.5	120	..	0.2
27	Osc.	120	0	..	..	4.2
58	1F	260	3.5	120	3.5	8.4
27	2nd Det.	180	10.	..	..	0.3
47	Power	240	..	260	..	30.
80	Rect.	120	..	..	..	30.
		120	..	..	..	30.

The trimmers on the condenser gang should be adjusted at 1500 kc, the series oscillator padder at 600 kc.

Zenith 210-5, 211-5, 270-5, 510-5

Chassis 2046, used in Zenith Models 210-5, 211-5, 270-5 and 510-5, contains a few changes as compared with the schematic shown on page 3-1 of *Rider's Volume III* and on page 2729 of the *Rider-Combination Manual*. The only changes in the schematic are found in the oscillator circuit; the accompanying illustration shows these



Old and new oscillator circuits in the Zenith chassis 2046.

changes, including both the early and more recent designs. Note that a new part has been added, Part No. 22-179, a series padder; Part No. 22-120 has been removed. In the more recent design, the oscillator coil has been changed from Part No. S-2221 to Part No. S-2586, and the preselector coil