

Zenith Radio Corp.

Model: 5-S-56

Chassis:

Year: Pre October 1936

Power:

Circuit:

IF:

Tubes:

Bands:

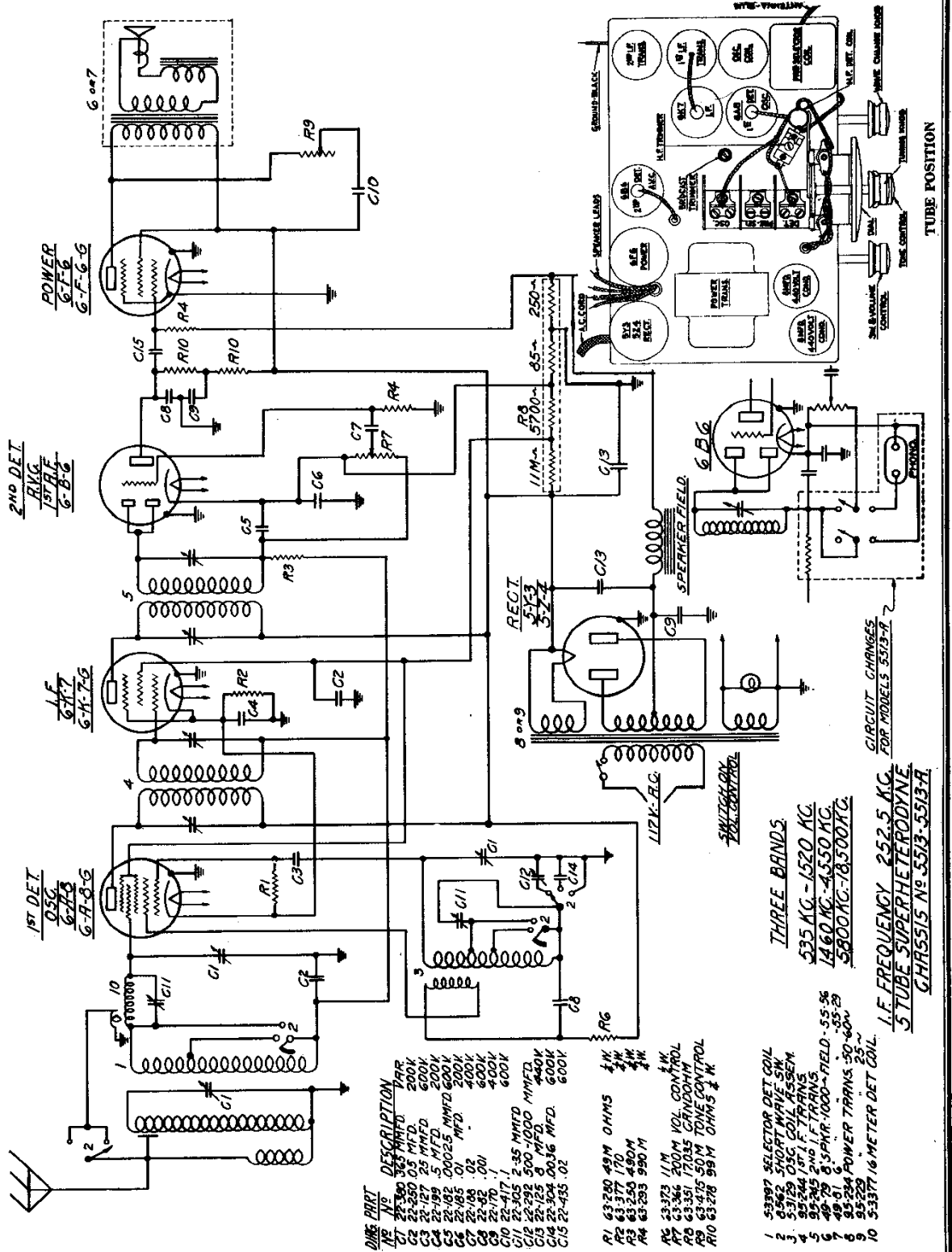
Resources

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ZENITH RADIO CORP.

MODELS 5-8-29, 5-8-56
 Chassis 5513, 5513A
 Schematic, Socket
 Trimmers, Parts



| QTY | PART | DESCRIPTION | PAR |
|-----|--------|---------------|------|
| C1 | 22-300 | 365 MHFD | 200K |
| C2 | 22-250 | 0.5 MHFD | 600K |
| C3 | 22-127 | 25 MHFD | 600K |
| C4 | 22-185 | 5 MHFD | 200K |
| C5 | 22-102 | 0.0025 MHFD | 200K |
| C6 | 22-102 | 0.0025 MHFD | 400K |
| C7 | 22-45 | 0.01 | 400K |
| C8 | 22-170 | 0.1 | 400K |
| C9 | 22-417 | 1 | 400K |
| C10 | 22-305 | 2.35 MHFD | 400K |
| C11 | 22-292 | 500-1000 MHFD | 400K |
| C12 | 22-125 | 0 MHFD | 600K |
| C13 | 22-344 | 0.036 MHFD | 600K |
| C14 | 22-455 | 0.2 | 600K |
| C15 | 22-455 | 0.2 | 600K |

| RES | DESCRIPTION | VAL |
|-----|-------------|------------------|
| R1 | 63-280 | 49M OHMS 1/2W |
| R2 | 63-377 | 170 1/2W |
| R3 | 63-250 | 480M 1/2W |
| R4 | 63-295 | 950M 1/2W |
| R5 | 63-373 | 11M 1/2W |
| R6 | 63-346 | 200M VOL CONTROL |
| R7 | 63-351 | 170.35 GRND OHM |
| R8 | 63-475 | 50M TONE CONTROL |
| R9 | 63-278 | 99M OHMS 1/2W |

THREE BANDS
 535 KC. - 1520 KC.
 1460 KC. - 4350 KC.
 5800 KC. - 16300 KC.
 I.F. FREQUENCY 252.5 KC.
 5 TUBE SUPERHETERODYNE
 CHASSIS No 5513-5513A

- 1 53997 SELECTOR DET COIL
- 2 4362 SHORT WAVE SW
- 3 53129 OSC COIL ASSEM
- 4 95244 1ST I.F. TRANS
- 5 95245 2ND I.F. TRANS
- 6 49-01 6-SPHR-1000-FIELD-55-56
- 7 95254 POWER TRANS 50-60V
- 8 53377 16 METER DET COIL
- 9 53377 16 METER DET COIL
- 10 53377 16 METER DET COIL

MODELS 5-S-56
MODELS 663, 664
Voltage, Alignment

ZENITH RADIO CORP.

SOCKET VOLTAGES FOR MODELS 663, 664, Chassis #5510

| TUBE | POSITION | Ef | Ek | Eg1 | Eg2 | Eg3 | Ep |
|------|-----------------------------------|-----|-----|-----|-----|-----|-----|
| 6A7 | 1st Det. | 5.8 | 4 | 0 | 97 | - | 205 |
| | Osc. | | | 0 | - | - | 175 |
| 6D6 | I. F. | 5.8 | 4 | 0 | 97 | 4 | 217 |
| 75 | 2nd Det. A. V. C. 1st Audio | 5.8 | 1.1 | 0 | - | - | 160 |
| 41 | PWR. | 5.8 | 0 | -15 | 225 | - | 215 |
| 6Z4 | RECT. | 5.8 | | 225 | - | - | - |

Line Voltage 6 Volts. All measurements taken with a 1000 ohm per volt meter.

ALIGNMENT MODELS 663, 664, Chassis #5510

- (1) Balance I. F. transformers at 456 K. C. with signal generator connected to grid of 6A7 and ground.
- (2) Connect signal generator to antenna and ground. Adjust oscillator trimmer on gang for correct dial reading at 1400 K.C. Adjust detector trimmer for greatest output.
- (3) Adjust oscillator padder while rocking pointer forward and backward past 600 K.C. to combination giving greatest output.
- (4) Realign 1400 K.C. trimmers on gang.
- (5) Set signal generator at 456 K.C. and gang at 600 K.C. Adjust wave trap trimmer for minimum signal. For other data see index

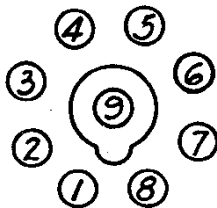
SOCKET VOLTAGES FOR MODELS 5-S-29, 5-S-56, Chassis #5513, #5513-A

| TUBE | POSITION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------|--------------------|---|-------------------|-----|-------------------|-----|-------------------|---|-----|---|
| 6A8 | 1st Det. | 0 | 5.8 _{ac} | 260 | 80 | -.1 | 210 | 0 | 4 | 0 |
| | Osc. | | | | | | | | | |
| 6K7 | I. F. | 0 | 5.8 _{ac} | 260 | 80 | 0 | - | 0 | 5.2 | 0 |
| 6B6 | 2nd Det. A.V.C. | 0 | 5.8 _{ac} | 135 | 0 | 0 | - | 0 | 1.5 | 0 |
| 6F6 | PWR | 0 | 5.8 _{ac} | 240 | 260 | -.7 | - | 0 | 0 | - |
| 5Y3 | Rect. | 0 | 260 | - | 270 _{ac} | - | 270 _{ac} | - | 260 | - |

Line Voltage 110 Volts. All measurements taken with a 1000 ohm per volt meter.

ALIGNMENT MODELS 5-S-29, 5-S-56, Chassis #5513, #5513-A

Alignment



BOTTOM VIEW
OF SOCKET

1. Balance I.F. transformers at 252.5 K.C. with test oscillator connected to control grid of 6A8 and ground.
2. Turn band switch to C band. Connect test oscillator to antenna and ground leads. Set test oscillator at 15 Megacycles. Adjust oscillator trimmer on gang condenser for correct dial reading.
3. Adjust detector trimmer (located on top of chassis between front section of gang condenser and coil) for maximum output.
4. Turn band switch to A band. Adjust oscillator trimmer (located on right side underneath chassis)

for correct dial reading at 1400 K.C. also adjust preselector and detector trimmers on gang for maximum output.

5. Adjust oscillator padder (next to oscillator section of gang on top of chassis) while rocking pointer back and forth past 600 K.C. to the combination giving greatest output.

6. Recheck 1400 K.C.

7. Repeat entire procedure.