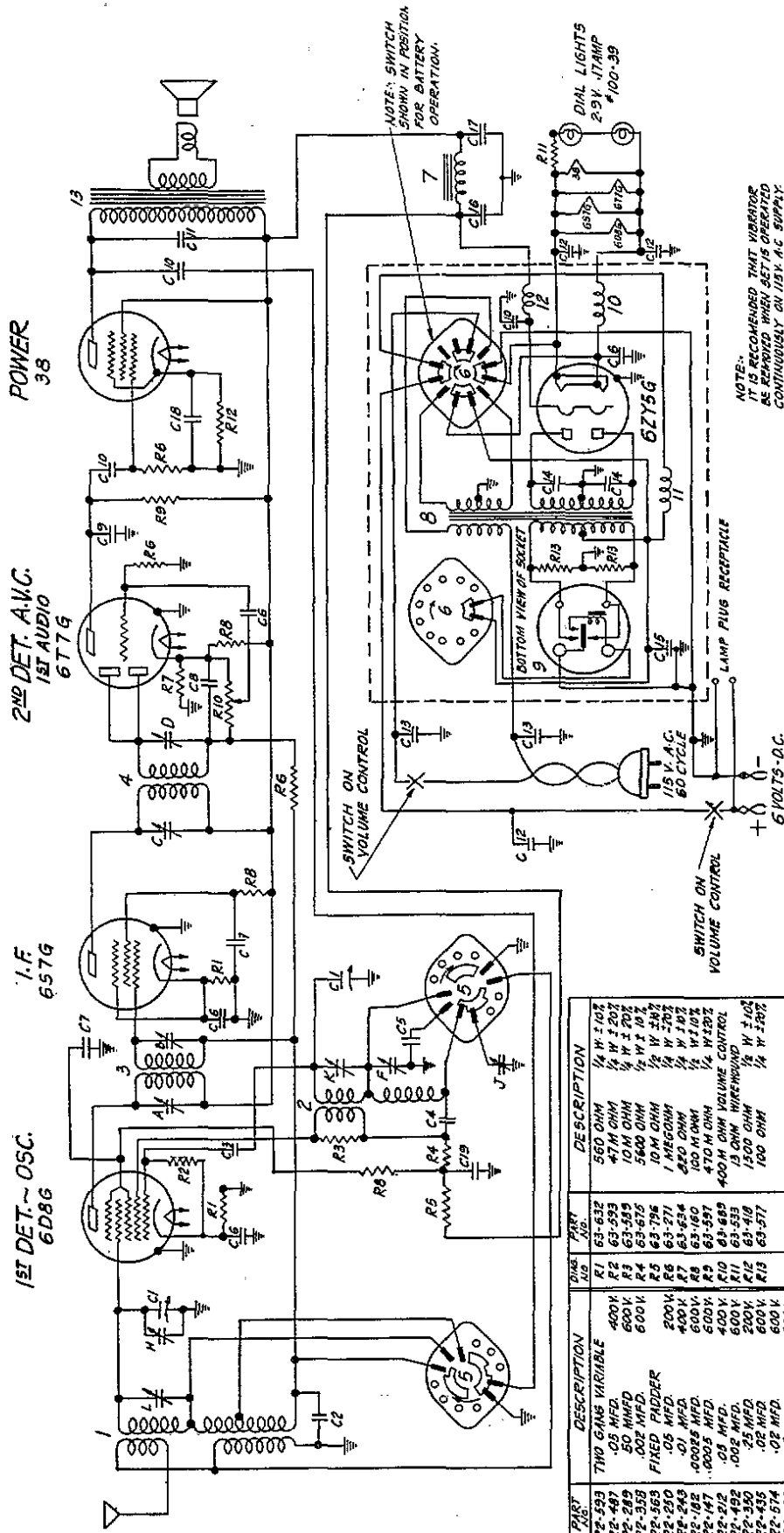


ZENITH RADIO CORP.

MODEL 5J217T  
Chassis 5524T  
Schematic, Parts



NOTE: RECOMMENDED THAT VIBRATOR BE USED ACCORDING TO SET'S OPERATED CONTINUOUSLY ON 115V. A.C. SUPPLY.

I.F. FREQUENCY 456K.C.  
5 TUBE BATTERY SUPERHETERODYNE  
6 VOLT D.C. - 115 VOLT A.C.  
CHASSIS No 5524-T  
ZENITH RADIO CORP.  
CHICAGO, ILLINOIS

MODEL SPEAKER 5-J-217T 49-211 6

| DIAL PART | DESCRIPTION                        | RES PART | DESCRIPTION                        |
|-----------|------------------------------------|----------|------------------------------------|
| 22-223    | TWO GANG VARIABLE                  | R1       | 560 OHM 1/4 W ± 10%                |
| C1        | .05 MFD.                           | R2       | 47M OHM 1/4 W ± 20%                |
| C2        | .02 MFD.                           | R3       | 10M OHM 1/4 W ± 20%                |
| C3        | .02 MFD.                           | R4       | 5600 OHM 1/4 W ± 10%               |
| C4        | FIXED PLEDER                       | R5       | 10M OHM 1/4 W ± 20%                |
| C5        | .05 MFD.                           | R6       | 1M OHM 1/4 W ± 20%                 |
| C6        | .05 MFD.                           | R7       | 470 OHM 1/4 W ± 20%                |
| C7        | .05 MFD.                           | R8       | 100 M OHM 1/4 W ± 10%              |
| C8        | .0005 MFD.                         | R9       | 100 M OHM 1/4 W ± 20%              |
| C9        | .0005 MFD.                         | R10      | 400M OHM VOLUME CONTROL            |
| C10       | .02 MFD.                           | R11      | 13 OHM OHM WIREWOUND               |
| C11       | .02 MFD.                           | R12      | 1500 OHM 1/4 W ± 10%               |
| C12       | .02 MFD.                           | R13      | 100 OHM 1/4 W ± 20%                |
| C13       | .02 MFD.                           |          |                                    |
| C14       | .02 MFD.                           |          |                                    |
| C15       | .02 MFD.                           |          |                                    |
| C16       | .02 MFD.                           |          |                                    |
| C17       | .02 MFD.                           |          |                                    |
| C18       | .02 MFD.                           |          |                                    |
| C19       | .02 MFD.                           |          |                                    |
|           | VARIABLE TRIMMERS                  |          |                                    |
| A         | 1st I.F. TRANSFORMER PRIMARY       | 1        | 5-3045 ANTENNA COIL ASSEMBLY       |
| B         | SECONDARY                          | 2        | 5-5425 ANT. COIL & SHIELD ASSEMBLY |
| C         | PRIMARY                            | 3        | 5-4903 OSCILLATOR COIL ASSEMBLY    |
| D         | SECONDARY                          | 4        | 5-1465 1ST I.F. TRANSFORMER        |
| E         | OSCILLATOR (SEE NOTE)              | 5        | 5-166 2ND I.F.                     |
| F         | BROADCAST OSCILLATOR (SEE NOTE)    | 6        | 55-104 BAND SELECTOR SWITCH        |
| G         | ANTENNA BROADCAST (ON GANG)        | 7        | 55-125 POWER SUPPLY SWITCH         |
| H         | 2-2519 BROADCAST PRIMER (SEE NOTE) | 8        | 55-128 POWER CHARGE                |
| I         | SHORT WAVE OSCILLATOR (SEE NOTE)   | 9        | 50-422 POWER TRANSFORMER           |
| J         | SHORT WAVE DETECTOR (SEE NOTE)     | 10       | 50-217A VIBRATOR ASSEMBLY          |
| K         | ON BARETYPE STRIP #25-324          | 11       | 5-5045 R.F. CHOKE ASSEMBLY         |
| L         |                                    | 12       | 2082 R.F. CHOKE TRANSFORMER        |
|           |                                    | 13       |                                    |

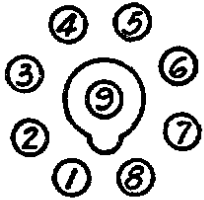
MODEL 5J217T  
Chassis 5524T

ZENITH RADIO CORP.

Socket, Trimmers  
Voltage, Alignment

**SOCKET VOLTAGES**

| Tube  | Position                     | 1 | 2   | 3    | 4    | 5    | 6   | 7   | 8   | 9 |
|-------|------------------------------|---|-----|------|------|------|-----|-----|-----|---|
| 6D8   | Converter Osc.               | 0 | 0   | 129  | 42.5 | -2   | 110 | 6.3 | 1.5 | 0 |
| 6S7   | I. F.                        | 0 | 0   | 130  | 42.5 | 1.5  | -   | 6.3 | 1.5 | 0 |
| 6T7   | 2nd Def. A.V.C.<br>1st Audio | 0 | 0   | 23   | .1   | .1   | -   | 6.3 | .5  | 0 |
| 6ZY5G | Rect.                        | 0 | 6.3 | -3.5 | -    | -3.5 | -   | 0   | 140 | - |
|       |                              | H | P   | S    | K    | H    | G   |     |     |   |
| 38    | Power                        | 0 | 124 | 129  | 12   | 6.3  | 0   |     |     |   |



All voltages measured from point indicated to ground using a 1000 Ohm per Volt meter, antenna and ground disconnected. Line voltage 117V. Consumption 16W. Battery voltage 6.3V consumption 2.1 Amp. Power Output .84W.

**BOTTOM VIEW  
OF SOCKET**

**ALIGNMENT PROCEDURE**

| Operation | Connect Test Oscillator to— | Dummy Antenna | Set Test Osc. to | Band    | Set Dial At | Adjust Trimmers | Purpose                           |
|-----------|-----------------------------|---------------|------------------|---------|-------------|-----------------|-----------------------------------|
| 1         | 1st Def. Grid               | 1/2 Mfd.      | 456              | Er'dc't | 600         | ABCD            | I. F. Alignment                   |
| 2         | Rec. Ant. Lead              | 200 Mmfd.     | 1500             | "       | 1500        | F               | Set Osc. to Scale                 |
| 3         | " " "                       | 200 Mmfd.     | 1500             | "       | 1500        | G               | Al'gment of Ant.                  |
| 4         | " " "                       | 200 Mmfd.     | 600              | "       | 600         | J               | Rock gang & adj. for max. output. |
| 5         |                             |               |                  | "       |             | FG              | Repeat 2 & 3.                     |
| 6         | Rec. Ant. Lead              | 400 Ohms      | 18000            | S.W.    | 18000       | K               | Set Osc. to Scale                 |
| 7         | " " "                       | 400 Ohms      | 16500            | S.W.    | 16500       | L               | Rock gang & adj. for max. output. |

**LOCATION  
OF TRIMMERS**

Chassis No. 5524T

