

## Zenith Radio Corp.

Model: 7-S-240

Chassis:

Year: Pre October 1937

Power:

Circuit:

IF:

Tubes:

Bands:

### Resources

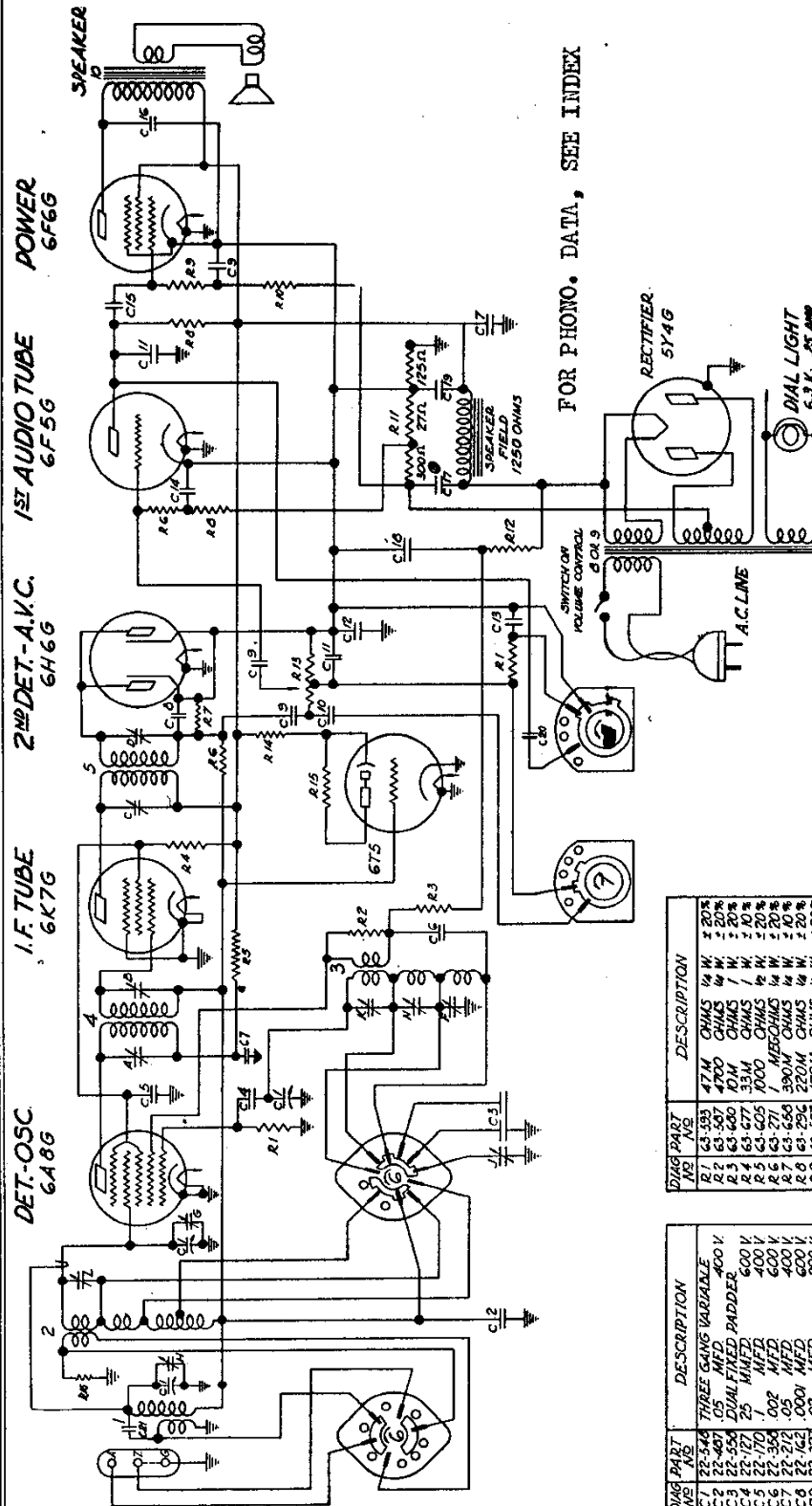
Riders Volume 8 - ZENITH 8-29

Riders Volume 8 - ZENITH 8-30

Chassis 5709  
Schematic, Parts

ZENITH RADIO CORP.

MODELS 7S204, 7S232, 7S240  
7S242, 7S258, 7S260  
7S261



FOR PHONO. DATA, SEE INDEX

I.F. - FREQUENCY 456 K.C.  
7 TUBE SUPERHETERODYNE  
3 BAND

CHASSIS NO 5709  
Models 7-S-204, 7-S-232, 7-S-240, 7-S-242,  
7-S-258, 7-S-260, 7-S-261

ZENITH RADIO CORP.

CHICAGO, ILLINOIS

| QWS | PART NO. | DESCRIPTION           |
|-----|----------|-----------------------|
| C21 | 22-604   | 10 MFD. CERAMIC       |
| R16 | 63-383   | 1000 OHMS 1/4 W ± 20% |

| SPEAKERS | MODELS  |
|----------|---------|
| 49-203   | 7-S-232 |
| 49-204   | 7-S-240 |
| 49-206   | 7-S-242 |
| 49-101   | 7-S-258 |
| 49-195   | 7-S-260 |
| 49-193   | 7-S-261 |

| PART NO. | DESCRIPTION                  |
|----------|------------------------------|
| R1       | 63-383 1000 OHMS 1/4 W ± 20% |
| R2       | 63-383 1000 OHMS 1/4 W ± 20% |
| R3       | 63-383 1000 OHMS 1/4 W ± 20% |
| R4       | 63-383 1000 OHMS 1/4 W ± 20% |
| R5       | 63-383 1000 OHMS 1/4 W ± 20% |
| R6       | 63-383 1000 OHMS 1/4 W ± 20% |
| R7       | 63-383 1000 OHMS 1/4 W ± 20% |
| R8       | 63-383 1000 OHMS 1/4 W ± 20% |
| R9       | 63-383 1000 OHMS 1/4 W ± 20% |
| R10      | 63-383 1000 OHMS 1/4 W ± 20% |
| R11      | 63-383 1000 OHMS 1/4 W ± 20% |
| R12      | 63-383 1000 OHMS 1/4 W ± 20% |
| R13      | 63-383 1000 OHMS 1/4 W ± 20% |
| R14      | 63-383 1000 OHMS 1/4 W ± 20% |
| R15      | 63-383 1000 OHMS 1/4 W ± 20% |
| R16      | 63-383 1000 OHMS 1/4 W ± 20% |
| R17      | 63-383 1000 OHMS 1/4 W ± 20% |
| R18      | 63-383 1000 OHMS 1/4 W ± 20% |
| R19      | 63-383 1000 OHMS 1/4 W ± 20% |
| R20      | 63-383 1000 OHMS 1/4 W ± 20% |
| R21      | 63-383 1000 OHMS 1/4 W ± 20% |
| R22      | 63-383 1000 OHMS 1/4 W ± 20% |
| R23      | 63-383 1000 OHMS 1/4 W ± 20% |
| R24      | 63-383 1000 OHMS 1/4 W ± 20% |
| R25      | 63-383 1000 OHMS 1/4 W ± 20% |
| R26      | 63-383 1000 OHMS 1/4 W ± 20% |
| R27      | 63-383 1000 OHMS 1/4 W ± 20% |
| R28      | 63-383 1000 OHMS 1/4 W ± 20% |
| R29      | 63-383 1000 OHMS 1/4 W ± 20% |
| R30      | 63-383 1000 OHMS 1/4 W ± 20% |
| R31      | 63-383 1000 OHMS 1/4 W ± 20% |
| R32      | 63-383 1000 OHMS 1/4 W ± 20% |
| R33      | 63-383 1000 OHMS 1/4 W ± 20% |
| R34      | 63-383 1000 OHMS 1/4 W ± 20% |
| R35      | 63-383 1000 OHMS 1/4 W ± 20% |
| R36      | 63-383 1000 OHMS 1/4 W ± 20% |
| R37      | 63-383 1000 OHMS 1/4 W ± 20% |
| R38      | 63-383 1000 OHMS 1/4 W ± 20% |
| R39      | 63-383 1000 OHMS 1/4 W ± 20% |
| R40      | 63-383 1000 OHMS 1/4 W ± 20% |
| R41      | 63-383 1000 OHMS 1/4 W ± 20% |
| R42      | 63-383 1000 OHMS 1/4 W ± 20% |
| R43      | 63-383 1000 OHMS 1/4 W ± 20% |
| R44      | 63-383 1000 OHMS 1/4 W ± 20% |
| R45      | 63-383 1000 OHMS 1/4 W ± 20% |
| R46      | 63-383 1000 OHMS 1/4 W ± 20% |
| R47      | 63-383 1000 OHMS 1/4 W ± 20% |
| R48      | 63-383 1000 OHMS 1/4 W ± 20% |
| R49      | 63-383 1000 OHMS 1/4 W ± 20% |
| R50      | 63-383 1000 OHMS 1/4 W ± 20% |
| R51      | 63-383 1000 OHMS 1/4 W ± 20% |
| R52      | 63-383 1000 OHMS 1/4 W ± 20% |
| R53      | 63-383 1000 OHMS 1/4 W ± 20% |
| R54      | 63-383 1000 OHMS 1/4 W ± 20% |
| R55      | 63-383 1000 OHMS 1/4 W ± 20% |
| R56      | 63-383 1000 OHMS 1/4 W ± 20% |
| R57      | 63-383 1000 OHMS 1/4 W ± 20% |
| R58      | 63-383 1000 OHMS 1/4 W ± 20% |
| R59      | 63-383 1000 OHMS 1/4 W ± 20% |
| R60      | 63-383 1000 OHMS 1/4 W ± 20% |
| R61      | 63-383 1000 OHMS 1/4 W ± 20% |
| R62      | 63-383 1000 OHMS 1/4 W ± 20% |
| R63      | 63-383 1000 OHMS 1/4 W ± 20% |
| R64      | 63-383 1000 OHMS 1/4 W ± 20% |
| R65      | 63-383 1000 OHMS 1/4 W ± 20% |
| R66      | 63-383 1000 OHMS 1/4 W ± 20% |
| R67      | 63-383 1000 OHMS 1/4 W ± 20% |
| R68      | 63-383 1000 OHMS 1/4 W ± 20% |
| R69      | 63-383 1000 OHMS 1/4 W ± 20% |
| R70      | 63-383 1000 OHMS 1/4 W ± 20% |
| R71      | 63-383 1000 OHMS 1/4 W ± 20% |
| R72      | 63-383 1000 OHMS 1/4 W ± 20% |
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| R74      | 63-383 1000 OHMS 1/4 W ± 20% |
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| R84      | 63-383 1000 OHMS 1/4 W ± 20% |
| R85      | 63-383 1000 OHMS 1/4 W ± 20% |
| R86      | 63-383 1000 OHMS 1/4 W ± 20% |
| R87      | 63-383 1000 OHMS 1/4 W ± 20% |
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| R89      | 63-383 1000 OHMS 1/4 W ± 20% |
| R90      | 63-383 1000 OHMS 1/4 W ± 20% |
| R91      | 63-383 1000 OHMS 1/4 W ± 20% |
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| R94      | 63-383 1000 OHMS 1/4 W ± 20% |
| R95      | 63-383 1000 OHMS 1/4 W ± 20% |
| R96      | 63-383 1000 OHMS 1/4 W ± 20% |
| R97      | 63-383 1000 OHMS 1/4 W ± 20% |
| R98      | 63-383 1000 OHMS 1/4 W ± 20% |
| R99      | 63-383 1000 OHMS 1/4 W ± 20% |
| R100     | 63-383 1000 OHMS 1/4 W ± 20% |

| PART NO. | DESCRIPTION            |
|----------|------------------------|
| C1       | 22-604 10 MFD. CERAMIC |
| C2       | 22-604 10 MFD. CERAMIC |
| C3       | 22-604 10 MFD. CERAMIC |
| C4       | 22-604 10 MFD. CERAMIC |
| C5       | 22-604 10 MFD. CERAMIC |
| C6       | 22-604 10 MFD. CERAMIC |
| C7       | 22-604 10 MFD. CERAMIC |
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| C99      | 22-604 10 MFD. CERAMIC |
| C100     | 22-604 10 MFD. CERAMIC |

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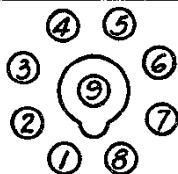
MODELS 7S204, 7S232, 7S240  
7S242, 7S258, 7S260  
7S261

ZENITH RADIO CORP.

Chassis 5709

Voltage, Alignment, Socket  
Trimmers**SOCKET VOLTAGES**

| Tube | Position           | 1 | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    |
|------|--------------------|---|-----|-----|-----|-----|-----|-----|------|------|
| 6A8  | Converter          |   |     |     |     |     |     |     |      |      |
|      | Osc.               | 0 | 6.4 | 255 | 89  | -10 | 182 | 0   | 0    | -2   |
| 6K7  | I.F.               | 0 | 6.4 | 243 | 89  | 0   | —   | 0   | 0    | -2   |
| 6H6  | 2nd Det.<br>A.V.C. | 0 | 0   | -2  | -2  | -2  | —   | 6.4 | -2   | —    |
| 6F5  | 1st Audio          | 0 | 0   | —   | 117 | —   | —   | 6.4 | -1.5 | -1.5 |
| 6F6  | Power              | 0 | 0   | 243 | 255 | -2  | —   | 6.4 | -2   | —    |
| 5Y4  | Rect.              | 0 | —   | AC  | —   | AC  | —   | 328 | 328  | —    |
|      |                    | H | Ep  | Eg  | Et  | Ek  | H   |     |      |      |
| 6T5  | Target             | 0 | 16  | -2  | 255 | -2  | 6.4 |     |      |      |



All voltages measured from point indicated to ground using a 1000 Ohm per Volt meter, antenna and ground disconnected. Line voltage 117V. Consumption 75W. Power output 4.5W.

**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 Det. Grid               | 1/2 Mfd.      | 456              | Br'dc't | 600         | ABCD            | I. F. Alignment                  |
| 2         | Rec. Ant. Post              | 200 Mmfd.     | 1500             | "       | 1500        | F               | Set Osc. to Scale                |
| 3         | " " "                       | 200 Mmfd.     | 1500             | "       | 1500        | GH              | Algt. of Ant. & De.              |
| 4         | " " "                       | 200 Mmfd.     | 600              | "       | 600         | J               | Rock gang & adj. for max. output |
| 5         | " " "                       |               |                  | "       |             | FGH             | Repeat 2 & 3                     |
| 6         | " " "                       | 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 |
| 8         | " " "                       | 400 Ohms      | 5500             | Police  | 5500        | N               | Rock gang & adj. for max. output |

LOCATION OF TRIMMERS

