<table>
<thead>
<tr>
<th>Model: 6050</th>
<th>Chassis:</th>
<th>Year: Pre March 1942</th>
</tr>
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<tbody>
<tr>
<td>Power:</td>
<td>Circuit:</td>
<td>IF:</td>
</tr>
<tr>
<td>Tubes:</td>
<td></td>
<td></td>
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<tr>
<td>Bands:</td>
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**Resources**

- Riders Volume 19 - SEARS 19-1
- Riders Volume 19 - SEARS 19-2
- Riders Volume 19 - SEARS 19-3
- Riders Volume 19 - SEARS 19-4
- Riders Volume 19 - SEARS 19-5
- Riders Volume 13 - SEARS 13-15

Courtesy Nostalgia Air
SERVICE NOTE: The a-c hum can often be greatly reduced on these chassis by replacing C12 with a 0.03-μF, 400-V capacitor. Sometimes the hum can be further reduced by replacing R12 with a 15,000-ohm, 1-watt resistor.
MODEL 6050, CHASSIS
132.825, 132.825-1,
132.825-2, 132.825-3,
132.825-4

SPECIFICATIONS

Power Supply -- 105-125 Volts AC-DC, 45 Watts Tuning Range Broadcast Band 540-1600 Kc
Power Output
Undistorted .8 Watts, maximum - 2.5 Watts Voice Coil Impedance 3.2 Ohms

CHASSIS DIFFERENCES

Note: On a few of the 132.825 chassis, a 470 ohm resistor was placed across the heater of the 14R7 tube to equalize the warm up period of the tubes. This is not shown on the Circuit Diagram.

132.825-1

Addition of Suffix Number - I to Chassis Identification Number 132.825 covers the following changes from the 132.825 chassis.
1. Removal of the bass boost circuit to reduce hum.
2. Change in tone control circuit.
3. Circuit changes as follows: Tone control condenser C14, .1 mfd. 200V was C7, .05 mfd., 200V; C8, .01 mfd. 400V fixed tone condenser in output circuit was C12, .02 mfd. 400V; C13, .005 mfd., 600V was .005 mfd., 300V; R9, 470 ohm 1/4 watt resistor added to 14R7 tube socket between heater lugs; C12, .02 mfd., 400V was C7, .05 mfd., 200V, on 12SK7 screen grid to floating ground. C14, .1 mfd., 200V condenser; R8, 6800 ohm 1/4 watt resistor, R9 1,000 ohm 1/4 watt resistor and R15, 10,000 ohm 1/4 watt resistor deleted from cathode circuit of 12 SK7 and 35L8 tubes.
4. Revision of parts price list; schematic diagram; and parts layout.

132.825-2

Addition of Suffix Number 2 to Chassis Identification Number 132.825 covers the following changes from the 132.825-1 chassis.
1. RF coil N18598 is replaced by RF coil N19860.
2. RF coil location is changed from the top of chassis to under chassis.
3. 470 ohm resistor deleted from 14R7 tube heater circuit.
4. The schematic diagram is redrawn with rearrangement of schematic location symbols in consecutive order from left to right without duplication.
5. Rearrangement of schematic location symbols on parts list and parts location drawings to correspond with schematic diagram.

132.825-3

Addition of Suffix Number - 3 to Chassis Identification Number 132.825 covers the following changes from the 132.825-2 chassis.
1. Addition of 12S27 tube and deletion of 14R7 tube.
2. Addition of hum bucking circuit in output stage (C12 & R12) from B+ to cathode of 35L6 tube, to replace the hum bucking circuit used in the 12SK7 screen grid circuit. Resistor R11, 1 megohm, 1/4 watt; and condensers C13, .05 mfd., C12 .02 mfd., and C15, .00025 mfd. deleted.
3. Resistor R10, in the plate circuit of the first audio tube changed from 100,000 ohms to 470,000 ohms.
4. Revision of parts price list; schematic diagram and parts and tube layouts.

Note: All schematic diagrams on the instruction sheets and chassis stickers supplied with radios bearing the chassis number 132.825-3 are incorrect. They show the secondary of the second IF transformer connected to the grid of the 12S27 tube, and both diodes of the tube connected to floating ground. The schematic diagram on this RL has been corrected.

132.825-4

Addition of Suffix Number - 4 to the Chassis Identification Number 132.825, covers the following changes from the 132.825-3 chassis.
1. Tone control changes from plate circuit to grid circuit of output tube.
2. Resistor R13, 500,000 ohms, part #199597 was 20,000 ohms, N19530. Resistor R11, 470,000 ohms 1/4 watt deleted; condenser C13, .002 mfd. 600V was .1 mfd. 200V.
3. Revision of parts price list, and schematic diagram.

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### PRELIMINARY:

#### ALIGNMENT PROCEDURE

Output meter connection: Across Speaker Voice Coil
Output meter reading to indicate 200 mV (Standard ouput): .8 Volts
Dummy antenna valve used in series with generator output: See Chart Below
Connection of generator output lead: See Chart Below
Connection of generator ground lead: Floating Ground
Generator modulation: 300 400 Cycles
Position of volume control: Fully clockwise
Position of tone control: Treble
Position of dial pointer with variable fully closed: Horizontal

<table>
<thead>
<tr>
<th>POSITION</th>
<th>FREQUENCY</th>
<th>DUMMY</th>
<th>GENERATOR</th>
<th>TRIMMERS</th>
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<tbody>
<tr>
<td>OF</td>
<td>OF ANTENNA</td>
<td>CONNECTION</td>
<td>ADJUSTED IN ORDER SHOWN FOR MAX. OUTPUT</td>
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<tr>
<td>VARIABLE</td>
<td>GENERATOR</td>
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<td>TRIMMER</td>
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Open
- 455 .05 mfd.
- 12347 Grid (or Stator of C-2)
- Top of 2nd & 1st IF Trans.

1400
- 1400 .0002 mfd. Antenna Clip (with black wire removed)
- C-3; C-2; & C-1 Oscillator
- Trimmers located on variable condenser

### IMPORTANT ALIGNMENT NOTES:

1. Place set loop in the same position and at the same distance with respect to the back of the chassis as it would be when the set is mounted in the cabinet during alignment of the RF stage.
2. If a standard test loop is used with the Signal Generator for alignment of the receiver, the black wire will be left in the antenna clip.
3. The alignment procedure should be repeated in the original order for greatest accuracy. Always keep the output from the signal generator at its lowest possible value to make the A.V.O. action of the receiver ineffective.
SUBJECT: DIFFERENCES BETWEEN 101.503 AND 101.503-1:

Chassis identified by 101.503-1 use 455 kHz IF instead of 465 kHz as used in 101.503. Different knobs and a different volume control also are used.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>SELLING PRICE EACH</th>
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<tbody>
<tr>
<td>1013418877</td>
<td>Control - Volume, with switch</td>
<td>.66</td>
</tr>
<tr>
<td>1013918804</td>
<td>Knob - Tuning</td>
<td>.08</td>
</tr>
<tr>
<td>1013918803</td>
<td>Knob - Volume</td>
<td>.08</td>
</tr>
<tr>
<td>1015930102</td>
<td>Leaflet - Instruction</td>
<td>.20</td>
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</table>

IF PEAK 455 KC

The .5 mfd. condenser, listed as C5 in the original Manual should have been listed as C8. The wiring diagram for 101.503-1, incorporating two or three minor resistor value changes, is shown.

CHASSIS 101.503-1

TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS AT INDICATED SOCKET PRONGS ARE TO CHASSIS, AND ARE TAKEN WITH NO SIGNAL. WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.