

Emerson Radio

I-f and Wave-trap Alignment

Swing the variable condenser to the minimum capacity position. Feed 455 kc to the grid of the 12SA7 tube through a .01 mf condenser and adjust the four i-f trimmers for maximum response.

Feed 455 kc to the external antenna lead and adjust the wave-trap for minimum response.

Note: The grid of the 12SA7 tube is the No. 8 pin.

VOLTAGE ANALYSIS

Tube	Plate	Screen	Cathode
12SA7	88	88	0
12SK7	48	46	0
12SF7	89	89	0
12SJ7	8	14	—
50L6GT	108	89	5.1

- R1, R7, R18, R19 } 1 megohm $\frac{1}{4}$ watt carbon resistor.....
 R2 } 20,000 ohm $\frac{1}{4}$ watt carbon resistor.....
 R3 } 140 ohm $\frac{1}{2}$ watt wire wound resistor
 R4 } 3 megohm $\frac{1}{4}$ watt carbon resistor.....
 R5 } Volume control 2.5 meg.....
 R6 } 10 megohm $\frac{1}{4}$ watt carbon resistor....
 R8, R16, R17, R20 } 500,000 ohm $\frac{1}{4}$ watt carbon resistor..
 R9, R10, R24 } 50,000 ohm $\frac{1}{4}$ watt carbon resistor....
 R11 } 175 ohm 1 watt carbon resistor.....
 R12 } 750 ohm 1 watt wire-wound resistor.
 R13 } 10,000 ohm $\frac{1}{4}$ watt carbon resistor....
 R14 } 25,000 ohm $\frac{1}{4}$ watt carbon resistor....
 R15, R23 } 100,000 ohm $\frac{1}{4}$ watt carbon resistor.
 R21, R22 } 100,000 ohm $\frac{1}{4}$ watt carbon resistor.
 R25 } 30,000 ohm $\frac{1}{4}$ watt carbon resistor....
 R26, R27, R28 } Ballast resistor: R26—233 ohm, 6 watt; R27—190 ohm, 5 watt; R28—250 ohm, 3 watt
 C1, C2 } Two-gang variable condenser.....
 C3, C16 } 0.002 mf, 600 volt tubular condenser..
 C4 } 0.0004 mf, 600 volt tubular condenser..
 C5 } Trimmer, part of loop assembly.
 C6, C7, C8, C9 } Trimmers, part of variable condenser.
 C11 } Trimmer, part of variable condenser.
 C10 } 0.1 mf, 200 volt tubular condenser.....
 C12 } 0.0006 mf, 600 volt tubular condenser.
 C13 } 0.0015 mf, 600 volt tubular condenser
 C14 } 0.05 mf, 400 volt tubular condenser....
 C15 } 0.0002 mf, 600 volt tubular condenser
 C17 } 0.02 mf, 400 volt tubular condenser....
 C18 } 0.00011 mf, mica condenser.....
 C19 } 0.005 mf, 400 volt tubular condenser
 C20, C21, C22 } Multiple dry electrolytic condenser: 150 volt; C20—20 mf; C21—80 mf; C22—40 mf
 C23 } 0.00025 mf, mica condenser.....
 C24, C27, C30 } 0.05 mf, 200 volt tubular condenser..
 C31, C32 } 0.000026 mf, mica condenser.....
 C25 } 0.001 mf, 600 volt tubular condenser
 C26 } 0.00022 mf, mica condenser.....
 C28 } 0.0003 mf, mica condenser.....
 C29 } 0.0003 mf, mica condenser.....

MODEL: GH-437, GH-447
CHASSIS MODEL: GH
MODEL: GH2-447
CHASSIS MODEL: GH2

