

# Models 73, 74

## The "Lucerne"

### Radio Receiver

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#### Specifications

**Frequency Range:**  
Broadcast

**Tubes:**

| Type | Position               |
|------|------------------------|
| 224  | 1st R.F.               |
| 224  | 2nd R.F.               |
| 224  | 3rd R.F.               |
| 227  | Detector               |
| 245  | A.F. Amplifier } Push- |
| 245  | A.F. Amplifier } Pull  |
| 280  | Rectifier              |

**Power Supply:**

Model 73—105-125 volts A.C., 50 to 60 cycles

Model 74—105-125 volts A.C., 25 to 50 cycles

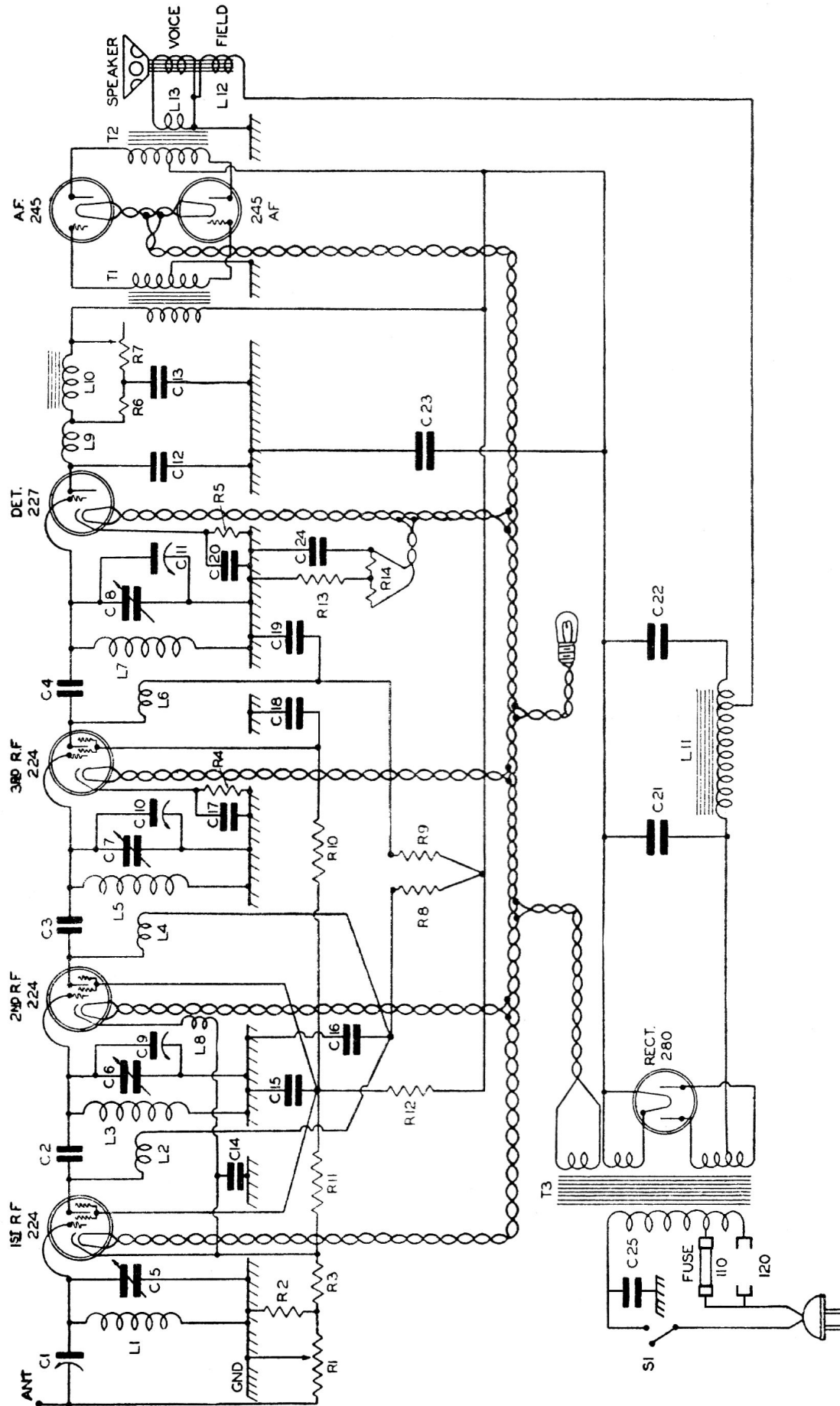
**Controls:**

Left—A.C. Switch and Volume Control

Centre—Tuning Control

Right—Tone Control.

# THE "LUCERNE" MODEL 73-74



Schematic Diagram—Model 73 and 74 Receivers

## NOMENCLATURE

### RESISTORS:—

- R-1 Volume Control 10,000 ohms.
- R-2 2750 ohms
- R-3 250 ohms } Tapped Unit.
- R-4 Cathode—750 ohms.
- R-5 Cathode—25,000 ohms.
- R-6 50,000 ohms.
- R-7 Tone Control 50,000 ohms.
- R-8 Plate supply 5,000 ohms.
- R-9 Plate supply 10,000 ohms.
- R-10 Screen supply 750 ohms.
- R-11 Cathode 25,000 ohms.
- R-12 Screen supply 30,000 ohms.
- R-13 Audio bias 800 ohms.
- R-14 Centre tap 4.1 ohms.

### COILS:—

- L-1 Antenna
- L-2 2nd R.F. Primary
- L-3 2nd R.F. Secondary
- L-4 3rd R.F. Primary
- L-5 3rd R.F. Condenser
- L-6 Det. Primary
- L-7 Det. Secondary
- L-8 Degenerative
- L-9 Det. Plate
- L-10 Tone Control
- L-11 Filter
- L-12 Speaker Field
- L-13 Speaker Voice Coil

### CONDENSERS:—

- C-1 Antenna Trimmer
- C-2, 3, 4 Coupling
- C-5, 6, 7, 8 Tuning
- C-9, 10, 11 Alignment
- C-12 Det. Plate .005 mfd.
- C-13 Tone Control .05 mfd.
- C-14 Cathode .05 mfd.
- C-15 Screen .05 mfd.
- C-16 Plate .05 mfd.
- C-17 Cathode .05 mfd.
- C-18 Screen .05 mfd.
- C-19 Plate .05 mfd.
- C-20 Det. Cathode .25 mfd.
- C-21 Filter 2 mfd.
- C-22 Filter 2 mfd.
- C-23 Filter 4 mfd.
- C-24 Audio bias, .05 mfd.
- C-25 Buffer, .1 mfd.

### TRANSFORMERS:—

- T-1 Audio Input
- T-2 Audio Output
- T-3 Power

### SWITCHES:—

- S-1 Main Switch

### TUBES REQUIRED

- 3 Type 224 Screen Grid
- 1 Type 227 Detector.
- 2 Type 245 Power Tubes
- 1 Type 280 Rectifier.

### SERVICE

Trouble on this Model was slight and confined to shorts at C-2, 3 & 4. Earlier Models used a flat, tapped, wire wound resistor for R-2, R-3. This resistor opening will cause erratic or no volume control.

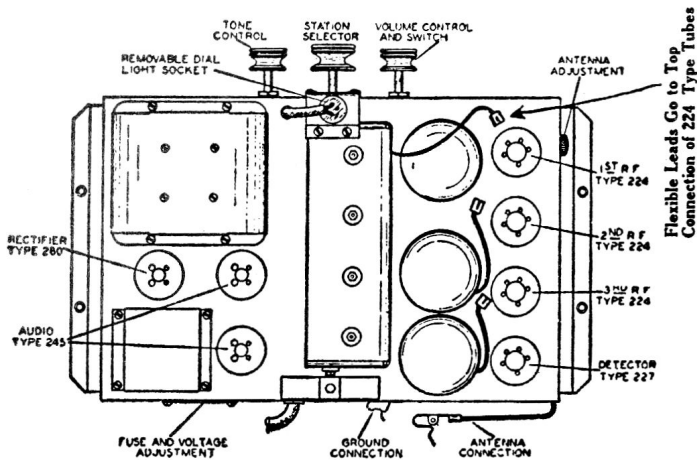


Fig. 1

Chassis Layout—"Lucerne" Model 73 Receiver

Model 73—for 50 to 60 cycle alternating current, 105 to 125 volts.

Model 74—for 25 to 50 cycle alternating current, 105 to 125 volts.