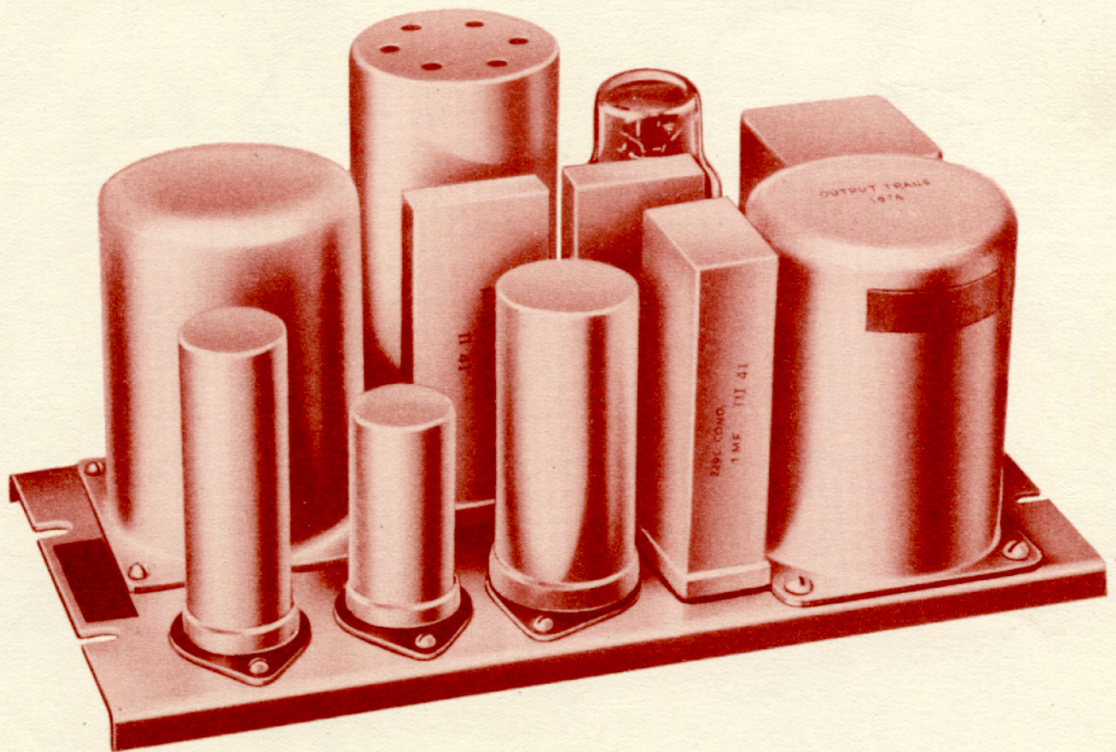


*Western Electric*

# 132-B Main Amplifier

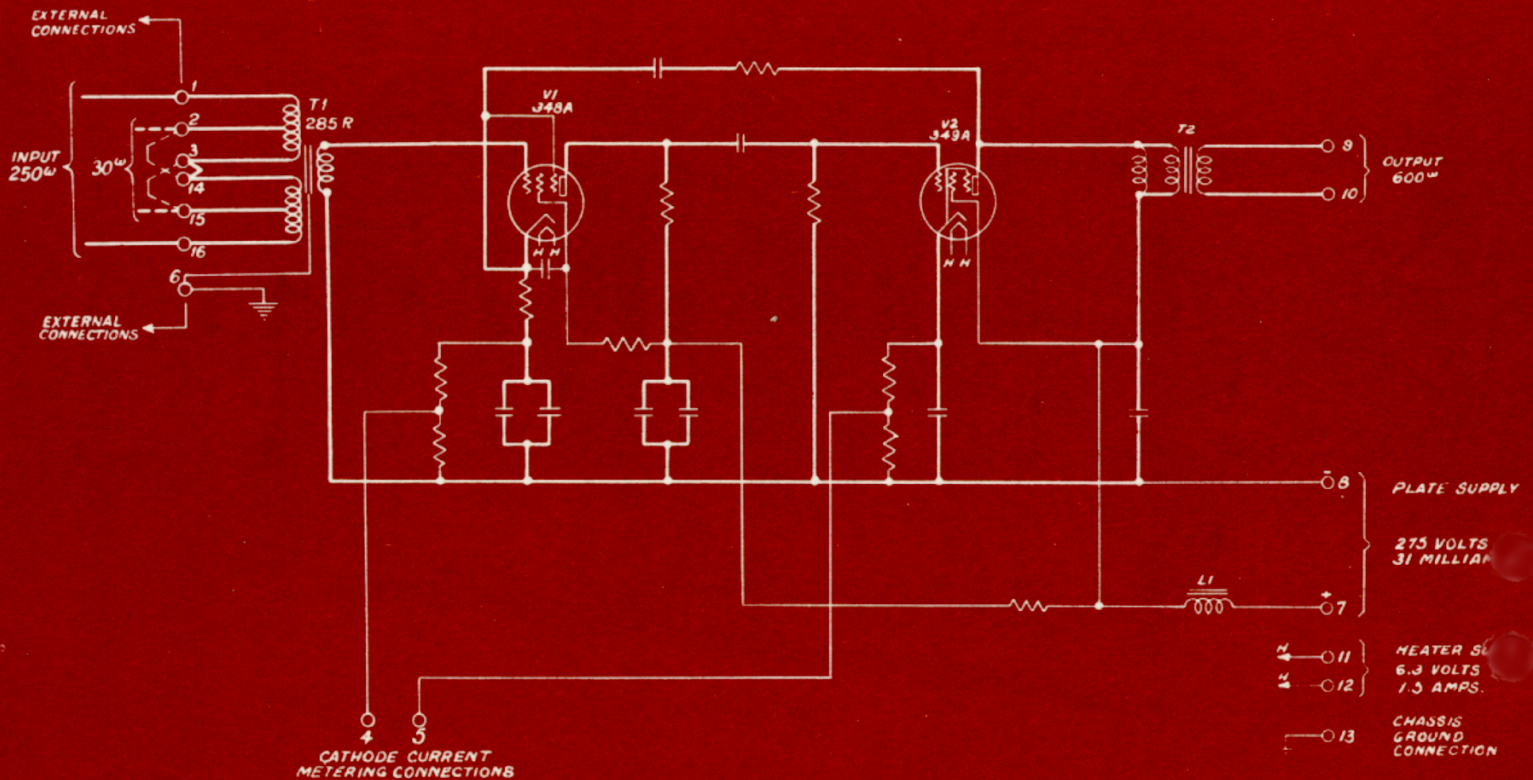




**I**DEALLY SUITED as a main amplifier in either AM or FM audio system installations, the Western Electric 132B Amplifier has a number of features which will help give the modern broadcaster high-quality, dependable service.

Compact physical dimensions — low signal-to-noise ratio — gain and output capable of providing a suitable margin above line level to allow for losses in coupling and equalizing devices — stabilized feedback to maintain fidelity over the full 50 to 15,000 cycle range — these are some of the outstanding qualities found in the Western Electric 132B Amplifier. The components are fully shielded to minimize self-generated noise, and the center-tapped input transformer is provided with an electro-static shield. It also has an extra electro-magnetic shield to reduce hum pickup from a-c magnetic fields which may exist from other apparatus. Resistors in the cathode circuit are provided to permit tube checks.

Adequate power is available to supply many program bus systems or studio auditioning facilities, in addition to feeding normally equalized transmission lines or master switching circuits. The 132B operates from an external power supply, and is suited for either desk or rack mounting.



*Simplified Schematic 132B Main Amplifier*



## Features

- Latest design for Modern FM and AM Broadcasting
- Can supply program bus systems and studio auditioning facilities
- High signal-to-noise ratio
- Stabilized feedback
- Easy checking of tubes
- Compact

## Typical Specifications

**FREQUENCY RESPONSE:** (as measured from nominal impedances) Uniform within  $\pm 1$  db, 50 to 15,000 cycles.

**OUTPUT NOISE:** -60 dbm — unweighted  
-75 dbm — weighted\*

**SIGNAL-TO-NOISE RATIO:**

73 db — unweighted  
83 db — weighted\*  
for + 18 dbm output.

**SOURCE IMPEDANCE:** Nominal 30 or 250 ohms — matching. For bridging, add suitable input pad. Range of  $\pm 20\%$  from these impedances will have a little effect on the frequency response characteristic.

**LOAD IMPEDANCE:** 600 ohms.

**MAXIMUM GAIN:** 51 db.

**OUTPUT POWER:** + 28 dbm, with 1% total harmonic distortion.

**POWER SUPPLY:** Filament 6.3 volts, 1.5 amperes a-c or d-c.

**PLATE:** 275 volts, 31 ma d-c

**VACUUM TUBES:**

<i>Quan. Req'd.</i>	<i>Western Electric</i>		<i>Commercial Receiver Type</i>
1	348-A	or	6J7 or 1620
1	349-A	or	6F6
—			
2			

**MOUNTING:** Designed for console mounting, also for rack mounting through the use of 177, 190 or 206A Type mounting plate (Capacity 3, 132-B Amplifiers per plate). A 406A Type panel is required for each mounting plate.

**DIMENSIONS:**  $10\frac{1}{2}$ " wide,  $5\frac{1}{4}$ " deep, 7" high overall.

**WEIGHT:**  $6\frac{1}{2}$  pounds.

**FINISH:** Light gray enamel.

\*The weighted measurements are those obtained with equipment having the ballistic and rectifier characteristics as specified by the American Standards Association for noise measurement, and Program Weighting characteristics of the Western Electric 2B Noise Measuring Set.

## Accessories

The following accessory equipment is recommended for use with this amplifier:

- KS-10003 Meter for measuring plate currents of the vacuum tubes.
- 18 or 20 Type rectifier.
- Western Electric 190 or 206A Type mounting plate.
- Western Electric 406A Type panel.



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