

- Program Amplifier or Monitor Amplifier
- Connections are Plug-in Type
- Extreme Dependability
- All Transistors are Silicon Planar NPN

## AM17 PLUG-IN AMPLIFIER TRANSISTOR TYPE

### GENERAL DESCRIPTION

The AM17 may be used as a program amplifier or as a monitor amplifier. Output power delivered to load is rated at +39 dbm (eight watts), which may be reduced to +30 dbm (one watt) by the omission of a strap connection. This omission lowers the current demanded from the external 24 v. DC power supply.

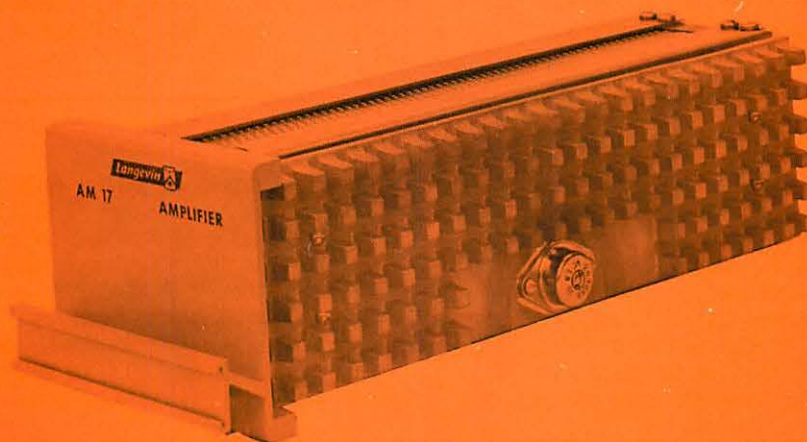
All conditional strapping of the AM17 . . . whether for input impedance, output impedance, or output capability . . . is performed on the mounting facility which receives it, and not on the amplifier proper.

This allows complete interchangeability of all units within a given system without regard to their individual modes of employment.

Extreme dependability has been stressed in the design of the AM17. All components are operated well within their ratings, and no electrolytic capacitors or "chemical" parts have been used. The amplifier is not subject to damage from input or output overload or impedance mismatch.

All transistors are silicon planar NPN. The output transistors (which are operated Class A) are adequately cooled by generously proportioned "waffle iron" heat sinks on either side of the chassis.

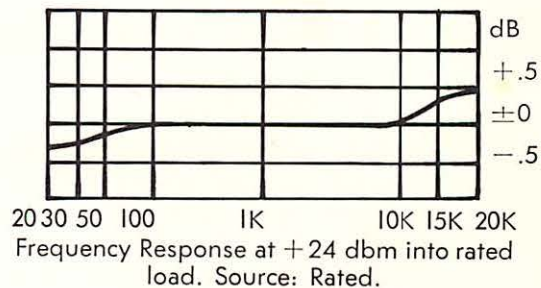
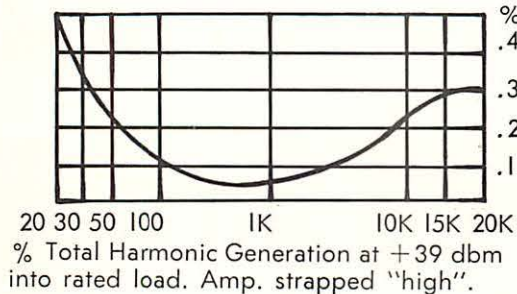
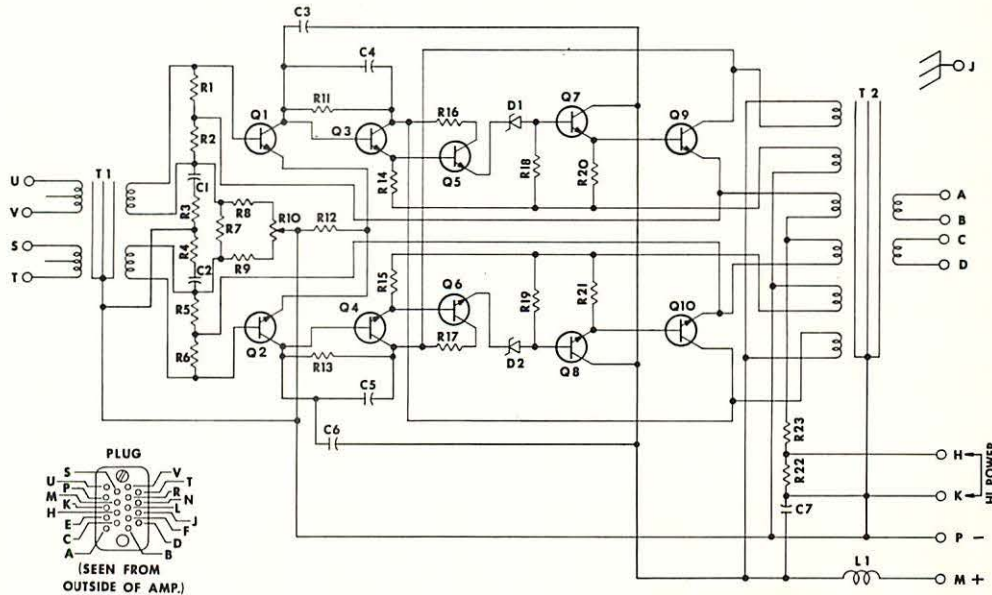
# Langevin AUDIO EQUIPMENT



## SPECIFICATIONS:

Performance Figures Listed Below Are GUARANTEED Values.

<b>Gain:</b>	57 ± 0.5 db	<b>Size:</b>	Approximately 3 $\frac{3}{8}$ " high, 4 $\frac{3}{16}$ " wide, 12 $\frac{5}{8}$ " long (not including plug pins).
<b>Input Z:</b>	150, 600 ohms	<b>Power Requirement:</b>	24 v DC (with negative grounded). Approximately 2 amperes on "high power" and 1 ampere on "low power".
<b>Load Z:</b>	150, 600 ohms	<b>Environmental Requirement:</b>	Temperature of mounting space must not exceed 65° C (145° F), including rise due to AM17/s. (dissipation of each AM17 is approximately 48 watts on "high power" and 24 watts on "low power".
<b>Harmonic Generation: (Total)</b>	Not over 0.5% from 30 Hz to 20 KHz @ +30 dbm (on "low power") Not over 1.0% from 30 Hz to 20 KHz @ +39 dbm (on "high power")		
<b>Noise Generation:</b>	Not over an input-equivalent level of -115 dbm (over bandwidth 20 Hz to 20 KHz).		
<b>Frequency Response:</b>	±0.5 db from 20 Hz to 20 KHz (measured at approx. +24 dbm output).		DO NOT OBSTRUCT THE FLOW OF AIR AROUND THE SIDES OF THE CHASSIS.



## ARCHITECTS' AND ENGINEERS SPECIFICATIONS

The amplifier shall be Langevin AM17. It shall be plug-in. It shall have magnetically and electrostatically shielded input and output transformers. Input impedances and output impedances shall be 150 and 600 ohms. All strapping for impedance and "high-low-power" shall be performed on the tray or cabinet which receives the amplifier, and not on the amplifier proper. Noise level shall not exceed an equivalent input of -115 dbm, unweighted. Gain at 1 KHz shall be 57 ± 0.5 db. When strapped for high power, harmonic generation at +24 dbm

shall not exceed 1.0% from 30 Hz to 20 KHz. When on low power, supply current demand shall be reduced, and harmonic generation at +18 dbm shall not exceed 0.5% from 30 Hz to 20 KHz. Amplifier shall employ only silicon transistors, and no electron tubes. It shall not contain any electrolytic capacitors, nor any part with known shelf or service life. Size shall be approximately 1 $\frac{3}{8}$ " high, 4 $\frac{3}{16}$ " wide, and 12 $\frac{5}{8}$ " long not including plug pins. Plug pins shall be gold-plated. Color scheme shall be grey and iridized cadmium plate.

## ACCESSORIES:

Mounting Tray No. TRY7	(for installation of single AM17 Amplifier).
Rack Cabinet No. RC76	(for installation of as many as four AM17 Amplifiers in 5 $\frac{1}{4}$ " of vertical space in standard rack)
Power Supply No. PS221	(10 amperes).
Power Supply No. PS222	( 3 amperes).