# ATP-3 PROGRAM AMPLIFIER

# DATA SHEET

# METALLIC FACILITY TERMINAL

The ATP-3 program amplifier provides amplification and equalization for 5-, 8-, and 15-kHz program service over nonloaded cable facilities without bridge taps. It is intended primarily for use in circuits that connect remote transmitter sites with broadcast studio facilities. The ATP-3 is for use in the 50- to 5000-Hz, 8000-Hz, or 15,000-Hz frequency range program circuits. The ATP-3 may be used in both inside and outside plant environments. Outside plant environments include installations in apparatus cases and on customer premises.

For a detailed description of this unit, see Section 320-200-102 and CPS-ATP-3. A block diagram is shown in Fig. 1 and switch designations are shown in Fig. 2.

***TRIM:*** These two controls (LOW and HIGH) are used to minimize variations in response caused by mixed cable gauges. The LOW control provides ±2 dB correction at a band of frequencies centered at 5 kHz. The HIGH control provides ±2 dB correction at a band of frequencies centered at 15 kHz.

***ATTEN ADJ:*** These switches provide 0.2 to 8.0 dB of attenuation. Attenuation is added when the switches are operated to the IN position.

***LOW FRE ADJ*** and ***FREQ SEL KHZ:*** These controls are used together to compensate for the major slope of the input cable facility response. The LOW FRE ADJ provides a loading effect at low frequencies and the FREQ SEL KHZ controls capacitance and inductance at higher frequencies.

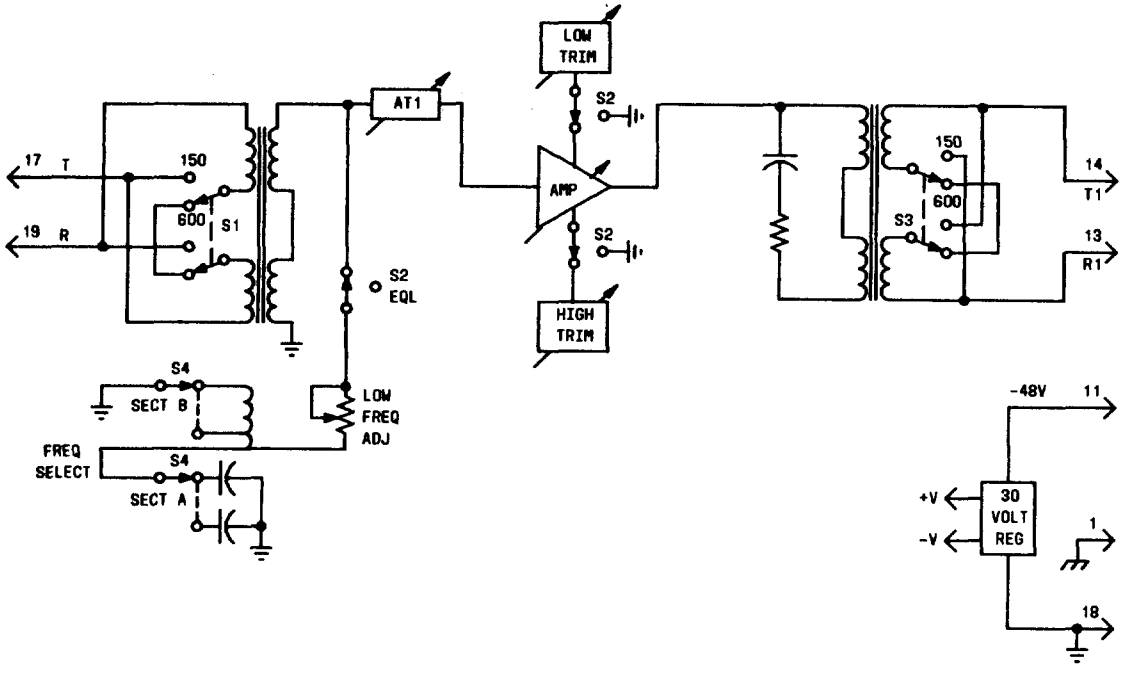


**Fig. 1—ATP-3 Block Diagram**

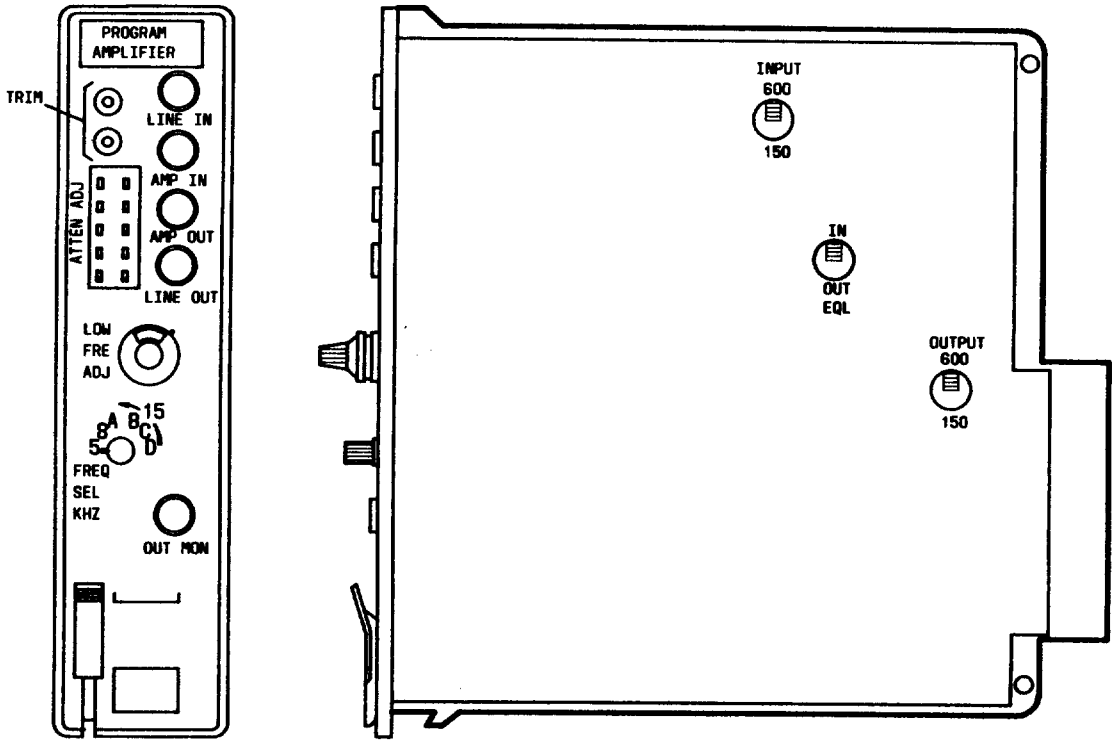


**Fig. 2—ATP-3 Component Layout**

***OUT MON:*** This jack allows program signal monitoring without interruption.

***LINE IN*** and ***LINE OUT:*** These jacks provide the ability to isolate input and output cable facilities.

***AMP IN*** and ***AMP OUT:*** These jacks allow isolation of the amplifier for amplifier testing.

***INPUT:*** This switch is used to select input impedance, 150 or 600 ohms.

***OUTPUT:*** This switch is used to select output impedance, 150 or 600 ohms.

***EQL:*** This switch is used to insert or remove the equalizer from the circuit. The equalizer is inserted when the switch is set to IN.