KS-20425 AMPLIFIER SYSTEM
INSTALLATION AND MAINTENANCE

1. GENERAL

1.01 This section covers the installation and maintenance for the KS-20425 L1 ▶(Manufacture Discontinued)◀ Amplifier System ▶and the new KS-20425 L2 Amplifier System.◀

1.02 This section is reissued to:

- Add the KS-20425 L2 Amplifier System
- Change Fig. 3 to 5
- Add new Fig. 3, 4, and 6.

2. INSTALLATION

2.01 The KS-20425 L1 ▶(Manufacture Discontinued)◀ Amplifier System (Fig. 1 and 2) ▶and KS-20425 L2 Amplifier System (Fig. 3 and 4)◀ are equipped for mounting on 19-inch relay racks.

2.02 External connections and strapping to the KS-20425 L1 ▶(Manufacture Discontinued)◀ should be made to TB1 and TB2, located on the rear of the amplifier, as shown in Fig. 5.

2.03 ▶External connections and strapping to the KS-20425 L2 should be made to TB1 and TB2, located on the rear of the amplifier as shown in Fig. 6.◀

2.04 The jack field, located on the front of the amplifier, provides access to the line input, distribution amplifier input, distribution amplifier output, and load input. All circuits are normalled through the jacks so that no patching is required.

2.05 The amplifier will deliver full output in an ambient temperature range of −0 to 130°F.

3. MAINTENANCE

3.01 The tests in Section 024-122-500 should be made to determine the performance of the amplifier when clearing troubles. If trouble in the amplifier is indicated by the tests and trouble cannot be cleared, the entire amplifier should be replaced.

3.02 Refer to CD-99528-01 for detailed description of operation of the amplifier system.

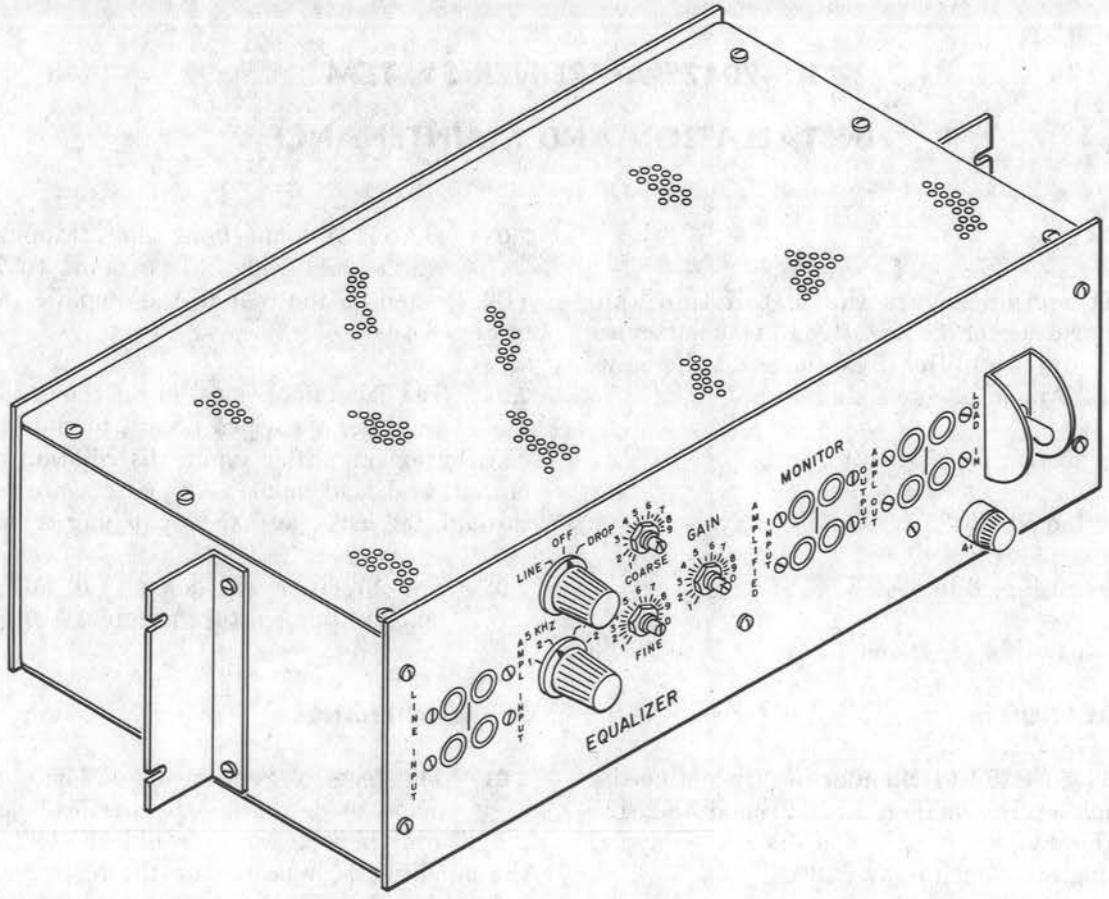

Fig. 1—KS-20425 L1 ▶(Manufacture Discontinued)◀ Amplifier System—Front View

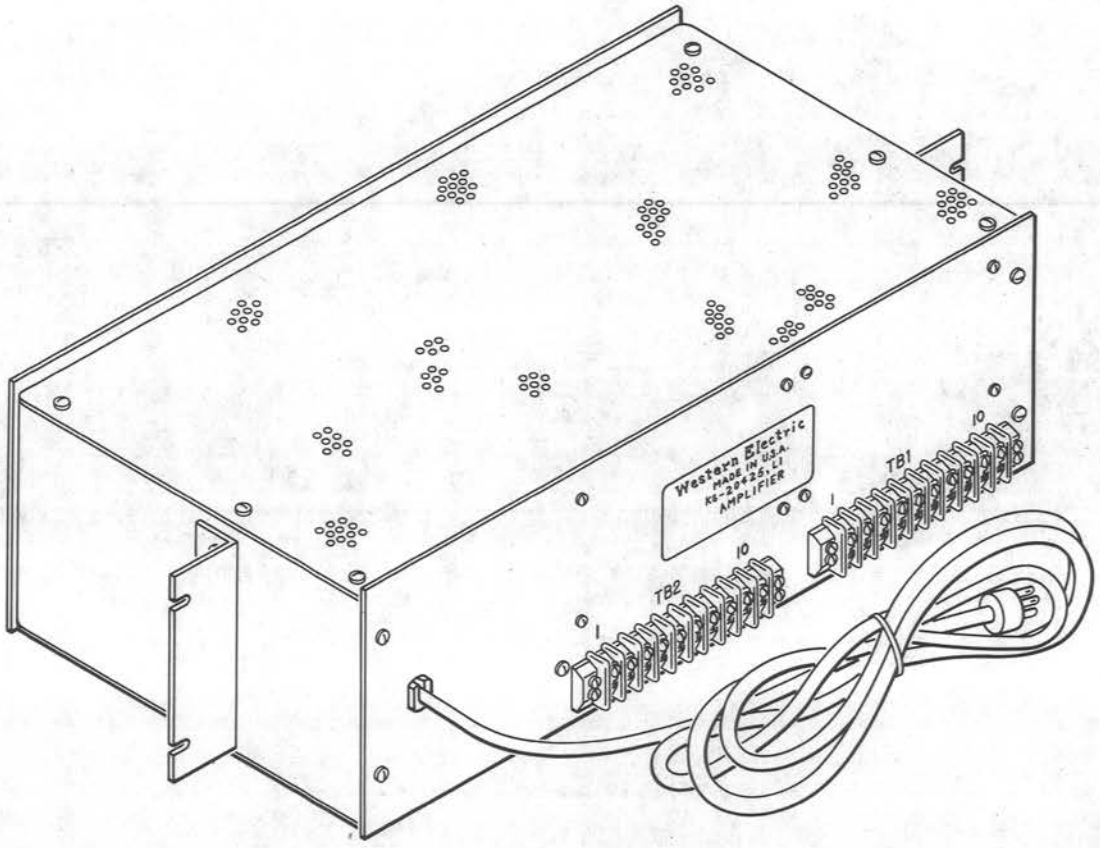

Fig. 2—KS-20425 L1 ▶(Manufacture Discontinued)◀ Amplifier System—Rear View

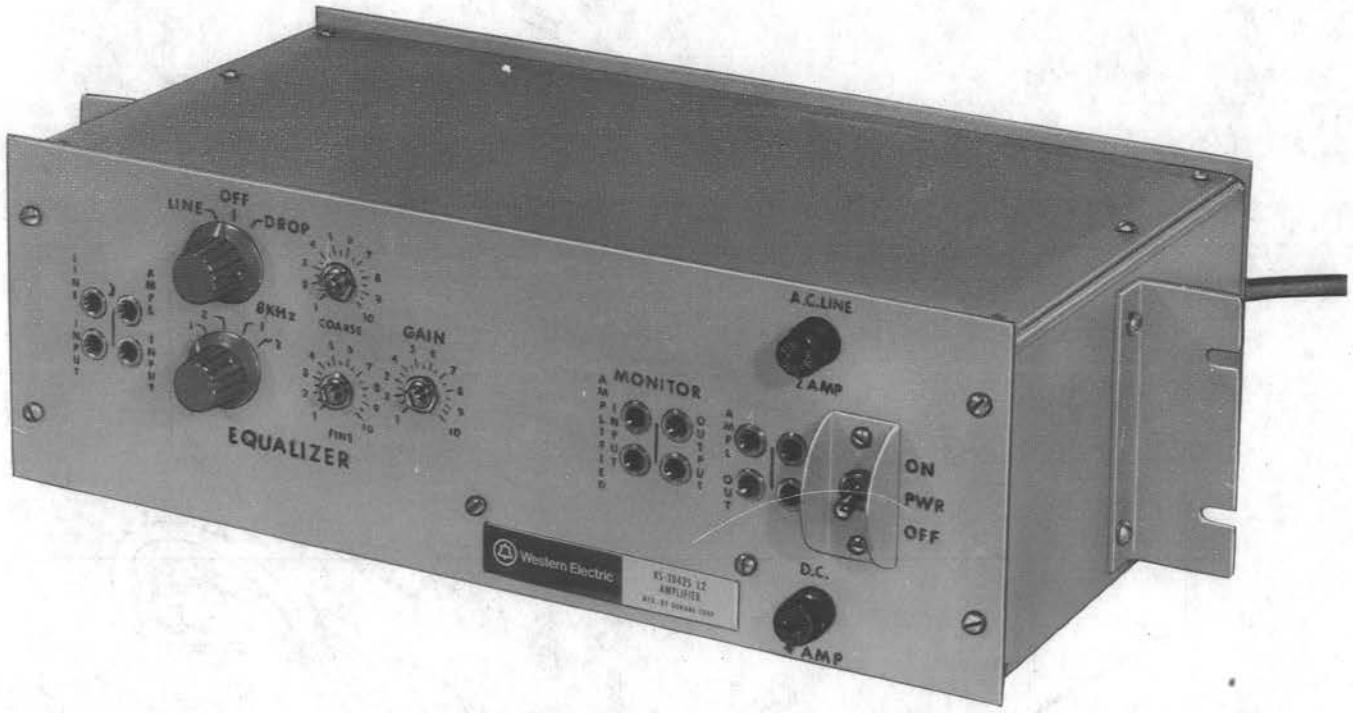

Fig. 3—KS-20425 L2 Amplifier System—Front View

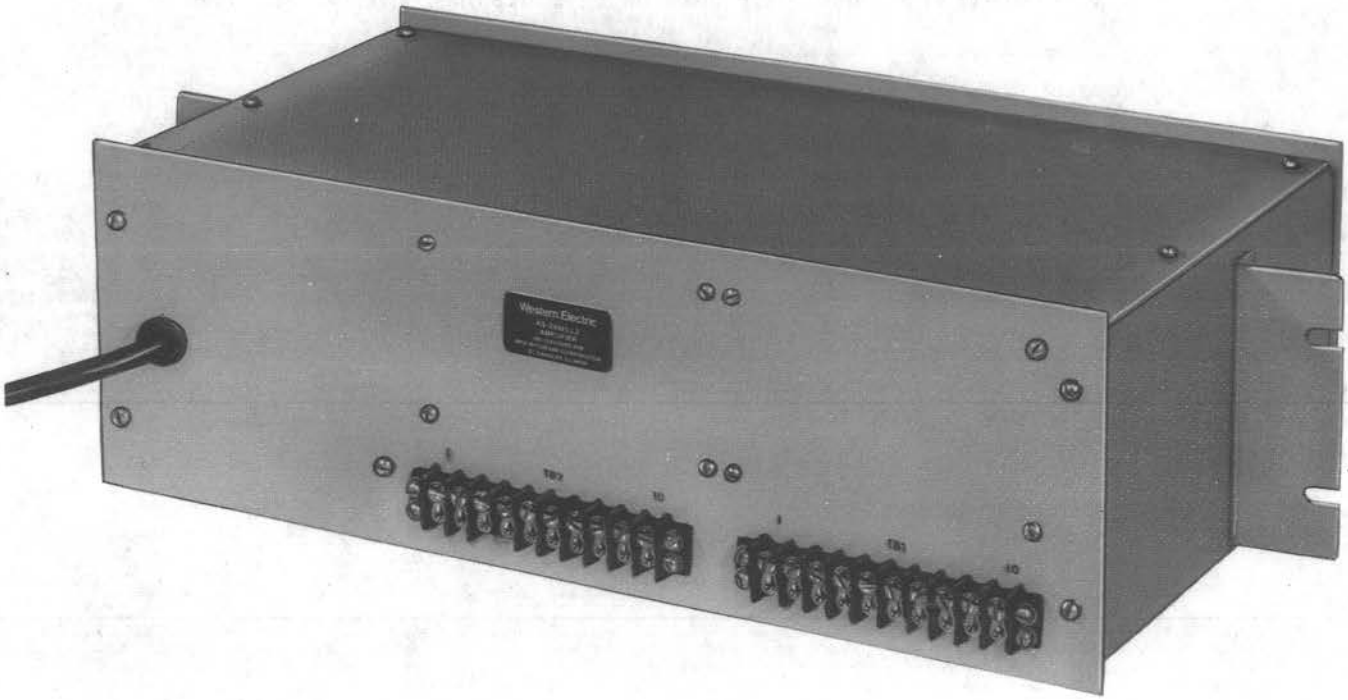

Fig. 4—KS-20425 L2 Amplifier System—Rear View

OPTIONS:

INPUT IMPEDANCE MATCHING	150Ω	Z
	600Ω	Y

S2 SWITCH FUNCTIONS

SWITCH POSITION	FUNCTION
1	5 KHZ-1
2	5 KHZ-2
3	8 KHZ-1
4	8 KHZ-2

NOTES:

1. THE TOTAL RESISTANCE OF THE WIRING USED TO CONNECT TO THE NEAREST DISTRIBUTING RESISTOR PANEL (ED-97065-30) SHOULD NOT EXCEED 0.04 OHMS.
2. THE CONNECTING VU METER SHOULD BE OPERATED IN THE BRIDGING POSITION AND PROVIDE AN INPUT IMPEDANCE OF AT LEAST 7500 OHMS.
3. UNLESS OTHERWISE SPECIFIED; RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS. VALUES PRECEDED BY THE SYMBOLS +(PLUS) OR -(MINUS) ARE IN VOLTS.
4. ALL VOLTAGES ARE MEASURED WITH RESPECT TO COMMON CONNECTION ▽ WITH A METER OF 20,000 OHMS PER VOLT AND WITH NO SIGNAL APPLIED TO AMPLIFIER.
5. WIRE TWO (2) KS-14603L3C RESISTORS (5.36 OHMS), ONE FROM THE TIP SIDE (TERMINAL 3) AND ONE FROM THE RING SIDE (TERMINAL 2) TO THE OFFICE GROUND (TERMINAL 7).

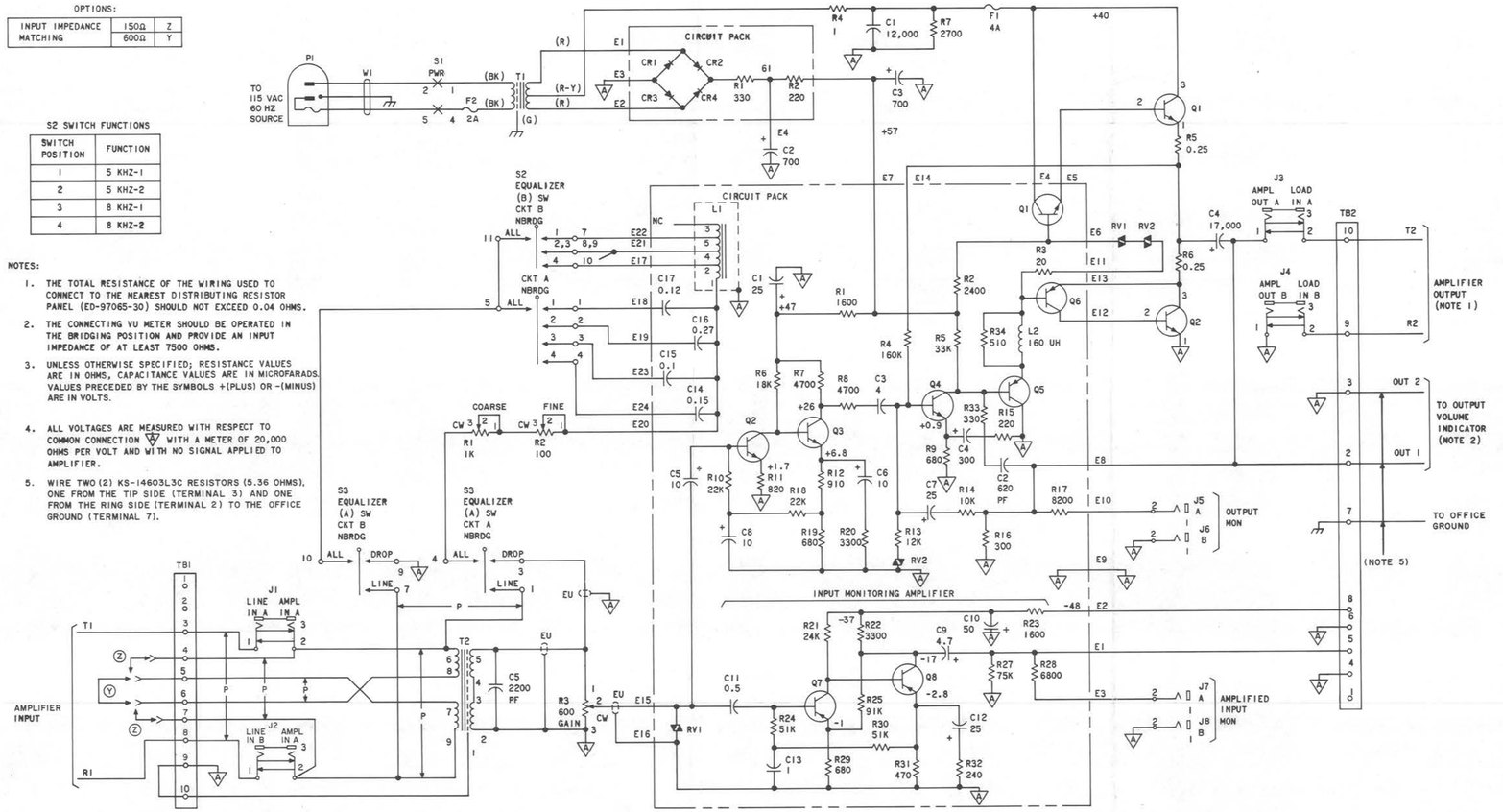

Fig. 5—Schematic of KS-20425 L1 ◗(Manufacture Discontinued)◖ Amplifier System

OPTIONS:

INPUT IMPEDANCE MATCHING	150Ω	Z
	600Ω	Y

S2 SWITCH FUNCTIONS

SWITCH POSITION	FUNCTION
1	5 KHZ-1
2	5 KHZ-2
3	8 KHZ-1
4	8 KHZ-2

NOTES:

1. THE TOTAL RESISTANCE OF THE WIRING USED TO CONNECT TO THE NEAREST DISTRIBUTING RESISTOR PANEL (ED-97065-30) SHOULD NOT EXCEED 0.04 OHMS.
2. THE CONNECTING VU METER SHOULD BE OPERATED IN THE BRIDGING POSITION AND PROVIDE AN INPUT IMPEDANCE OF AT LEAST 7500 OHMS.
3. UNLESS OTHERWISE SPECIFIED; RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS. VALUES PRECEDED BY THE SYMBOLS +(PLUS) OR -(MINUS) ARE IN VOLTS.
4. ALL VOLTAGES ARE MEASURED WITH RESPECT TO COMMON CONNECTION (A) WITH A METER OF 20,000 OHMS PER VOLT AND WITH NO SIGNAL APPLIED TO AMPLIFIER.

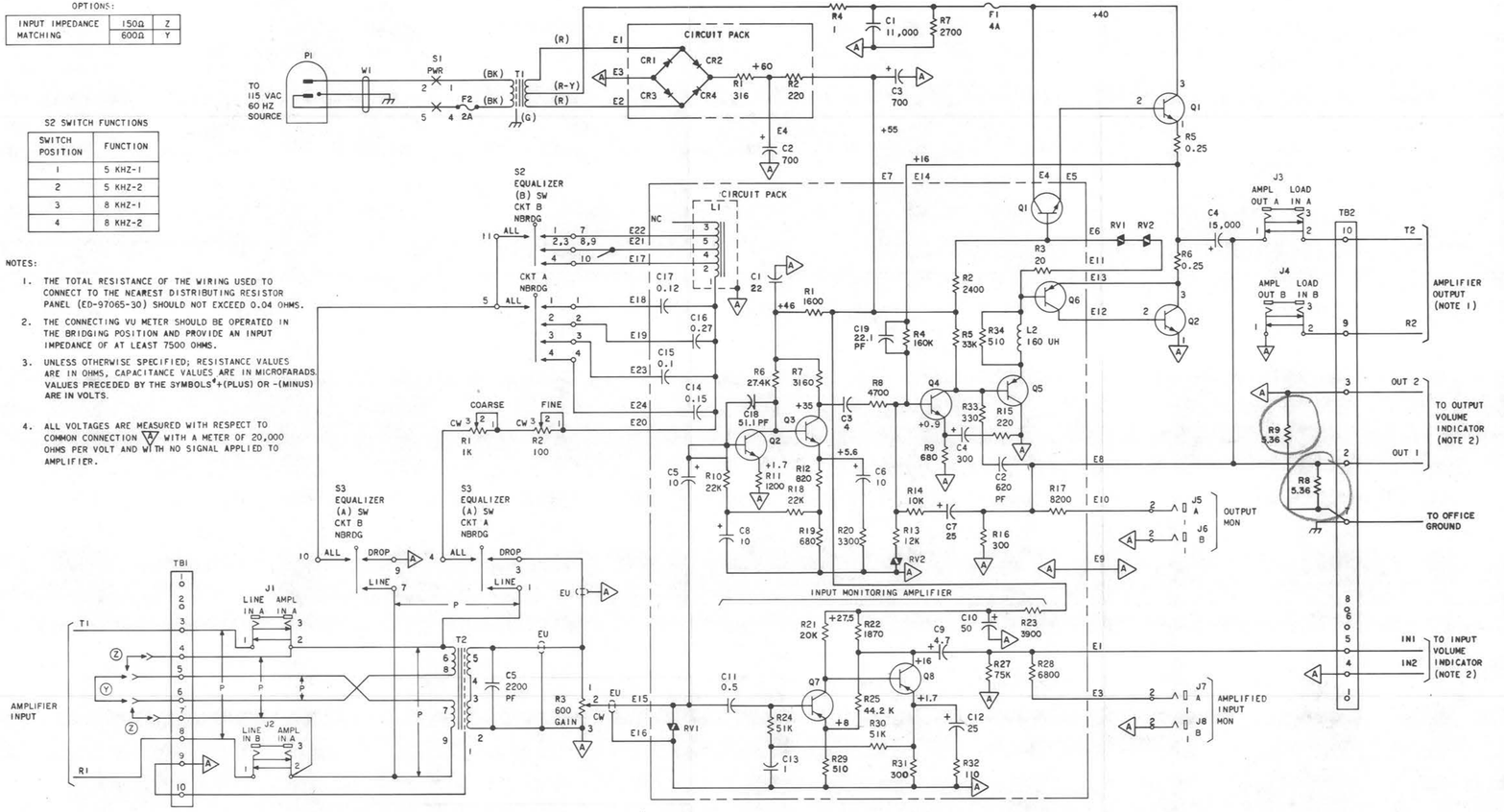

Fig. 6—Schematic of KS-20425 L2 Amplifier System