MIXER & LINE AMP
PRINTED WIRING BOARD

Fig. 8. Schematic Diagram, Mixer, Sheet 2
### 1.3 Specifications

<table>
<thead>
<tr>
<th><strong>Inputs</strong></th>
<th>Four microphone inputs and two high level line inputs.</th>
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</table>
| **Input Impedance** | Microphone: 200 ohms, non-terminating.  
Line: 100,000 ohms unbalanced. With accessory transformers (refer to paragraph 1.2.1) can be 20,000 ohms balanced bridging or 600 ohms balanced matching. |
| **Outputs** | Two, 600 ohm. |
| **Gain** | Microphone: At least 75 db.  
Line: At least 20 db. |
| **Noise** | Microphone: Less than -60 dbm.  
Line: Less than -70 dbm.  
Equivalent input noise level: -122 dbm. |
| **(Output reference level +4 dbm)** | |
| **Frequency Response** | Microphone: +1 db, 30 to 20,000 Hz.  
Line: +0, -1 db, 30 to 20,000 Hz. |
| **Distortion** | Microphone: With an input level of -30 db (25 millivolts) and the input level control adjusted for a +12 dbm (3 volt) output, the total harmonic distortion is less than 1%.  
Line: With an input level of 15 dbm (4.4 volts) and the input level control adjusted for a +12 dbm (3 volt) output, the total harmonic distortion is less than 1%. |
| **Crosstalk Rejection** | 65 db at 500 Hz. Better than 40 db from 20 to 20,000 Hz. |
| **Power Consumption** | Domestic: 105-125 volts, 50 or 60 Hz, 0.1 ampere.  
International: 115 volts, 50 or 60 Hz, 0.1 ampere.  
230 volts, 50 or 60 Hz, 0.03 ampere |
| **Output Clipping Level** | The line amplifier will provide an output of at least 24 dbm, from 50 to 10,000 Hz, before clipping. |