

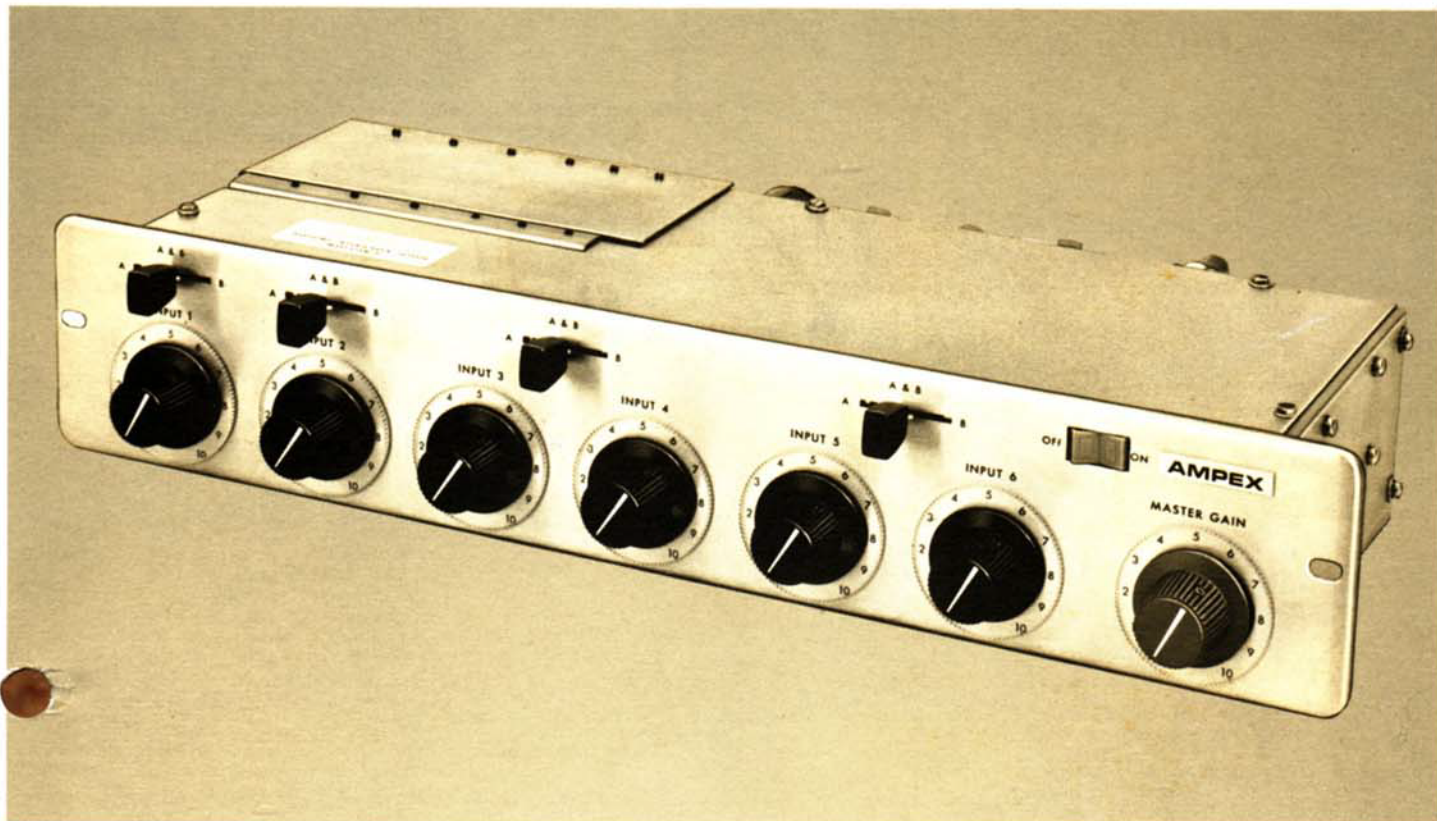
# AMPEX

SOLID-STATE

## AM-10

MIXER

## PROFESSIONAL QUALITY COMPACT PORTABLE 6 POSITION-2 CHANNEL STEREO/MONO MIXER



- New solid-state plug-in electronics
- Regulated power supply
- 6 position — 2 channel versatility in 3½" rack space
- Improved signal/noise ratio

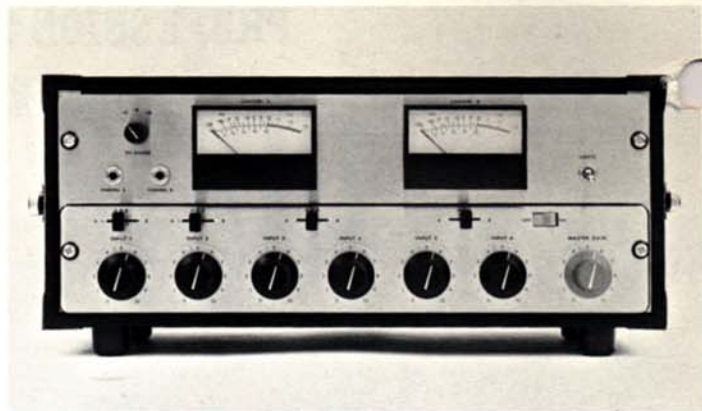
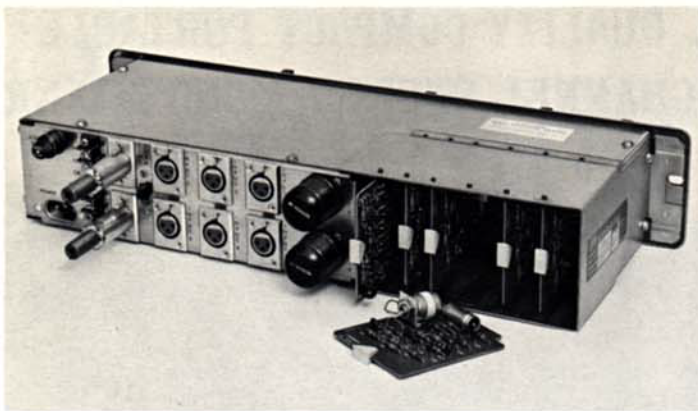
Compact, versatile, portable . . . the all new, all solid-state AM-10 mixer offers console quality performance in a compact, portable package. It is a greatly improved version of the well known MX-10. The AM-10 is ideal for use in schools, government, industry, medicine and motion picture or television studio, broadcast studio and remote, and for master recording operations.

The AM-10 is a six position, two channel stereo/mono mixer with unique switching facilities found only in expensive custom designed studio consoles. It has four mike and two line inputs with feed A, B or A and B output channels. Line inputs can be converted to mike inputs by adding accessory plug-in preamps. Each input has separate gain controls with easy-to-read reset indicators. The mixer also features a master gain control and lighted on/off switch. Any number of AM-10 mixers can be coupled through a convenient connector strip allowing additional inputs, with the

- High crosstalk rejection and response
- 600 ohm output impedance
- New easy-to-read reset indicator
- Portable or rack mount

master gain on the final unit controlling the entire chain. The AM-10 is equally at home in the studio or on remote location. It can be mounted in a standard rack or console overbridge, or is available case-mounted with two VU meters\* as a companion to Ampex portable professional recording equipment. It also can be used with other audio recorders and sound equipment such as theatre systems, public address or sound systems. The AM-10 may be used as a sub-mixer between recorders for voice-over and effects for dubbing multi-track tapes to one or two track masters. The high S/N ratio makes it ideal for motion picture and television studios where maximum gain is often required for distant mike pick-ups.

New solid-state circuits provide unusually high crosstalk rejection and improved response to meet full audio spectrum requirements. All circuits (preamps, mixing amps and line amps) are plug-in for ease of maintenance.

**AMPEX****SOLID-STATE AM-10 MIXER****VERSATILITY AND PERFORMANCE WITH THE AM-10 MIXER**

All new solid-state circuits provide exceptional performance, small size and portability. The AM-10 offers six inputs and two outputs for any audio mixing requirement.

**TRUE PORTABILITY IN A PROFESSIONAL MIXER**

The AM-10 is the only mixer professional enough to be companion to the Ampex AG-500, AG-600, and AG-440 series professional recorder/reproducers. Four mike and two line inputs can be mixed and monitored into two outputs with separate VU meters\* in this compact case mounted unit.

\* Accessory unit

**SPECIFICATIONS**

**Inputs:** Four microphone level inputs and two high level line inputs (with accessory plug-in preamplifiers provides six microphone level inputs).

**Inputs Impedance:** Microphone: 200 ohm non-terminating  
Line: 100 k ohms unbalanced  
20 k ohms bridging  
600 ohms with accessory line matching transformer

**Outputs:** Two, 600 ohms; maximum level +12 dBm at less than 0.5% harmonic distortion. +24 dBm at 1% harmonic distortion.

**Gain:** Microphone: at least 75 dB.  
Line: at least 20 dB.

**Noise:** Output reference level +4 dBm  
Microphone: less than -60 dBm  
Line: less than -70 dBm  
Theoretical reflective noise level -127 dBm, measured -122 dBm

**Frequency Response:** ±1 dB 30 Hz to 20 kHz

**Distortion:** Microphone Input: +12 dBm output level, less than 0.5% THD from 100 Hz to 10 kHz  
Line Input: +12 dBm output level, less than 0.5% from 50 Hz to 10 kHz

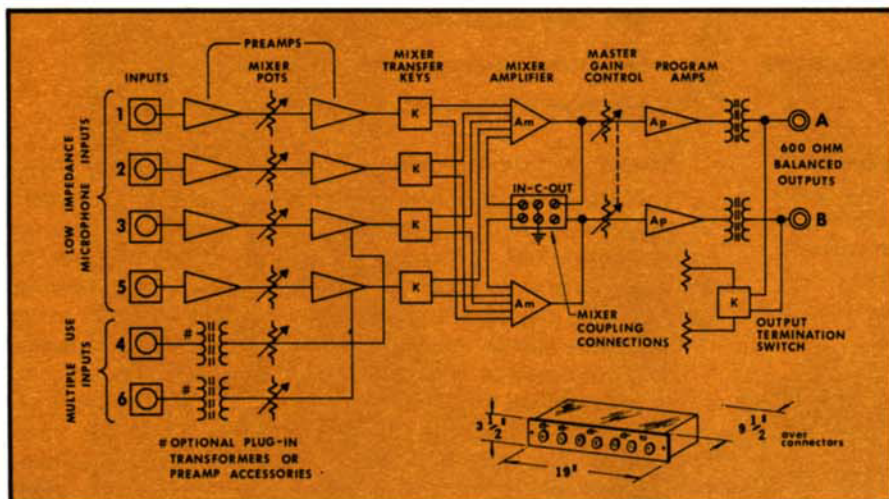
**Crosstalk Rejection:** 65 dB at 500 Hz. Greater than 40 dB from 20 Hz to 20 kHz

**Controls:** Six input level controls.  
One master gain control.  
Four switches for selection of Channel A, Channel B, or both. AC line switch.  
Line switching is shared with Channels 3 and 5 microphone switching.  
Output line terminating switch (located on rear panel)

**Connectors:** Professional "XL" type on all inputs and outputs except mixer coupling strip.

**Power Input:** Domestic: 105-125 volts, 50-60 Hz, 0.1 ampere  
International: 115/230 volt, 50-60 Hz, 0.1/0.03 ampere

**Electronics:** Solid-state with silicon transistors



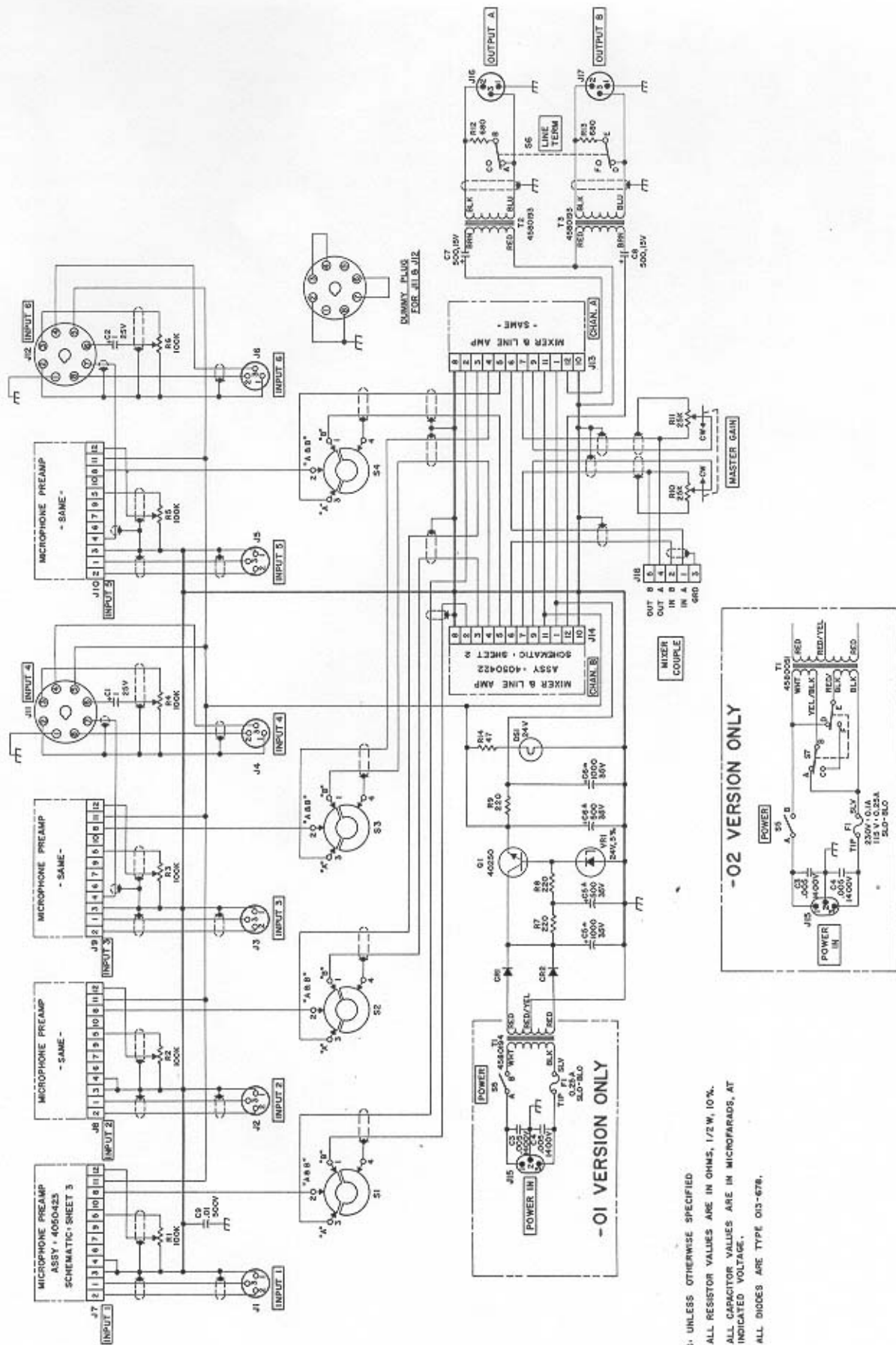
The AM-10 stereo/mono mixer offers convenience, flexibility and portability. It was designed to be used with Ampex professional recording equipment such as the AG-600, AG-500 and AG-440 systems, but may also be used with other audio recorders and sound equipment. When mounted with its companion VU meter panel, it becomes a compact console.

**AMPEX**

Ampex Corporation reserves the right to change specifications without notice and without obligation. These specifications supersede all previous specifications, stated or implied.

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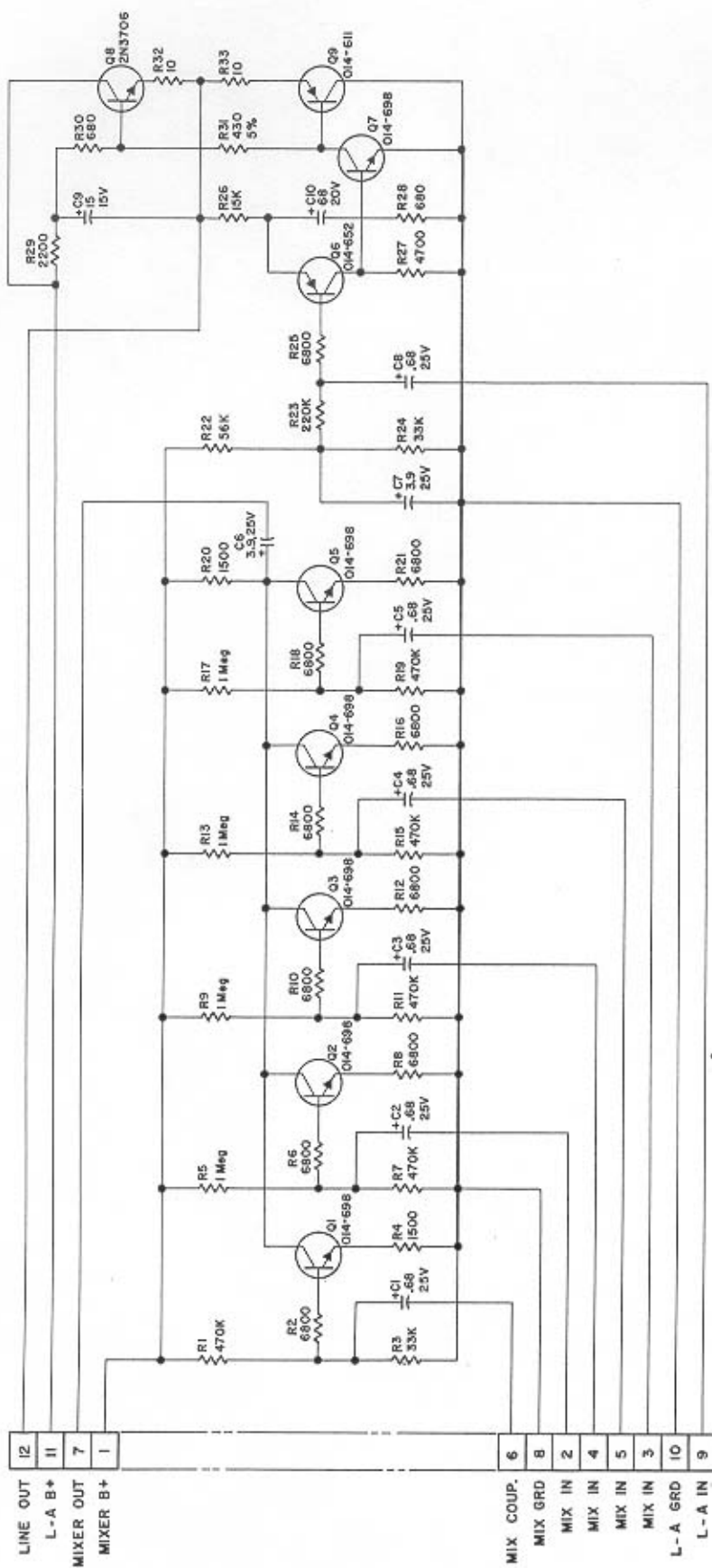
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NOTES: UNLESS OTHERWISE SPECIFIED

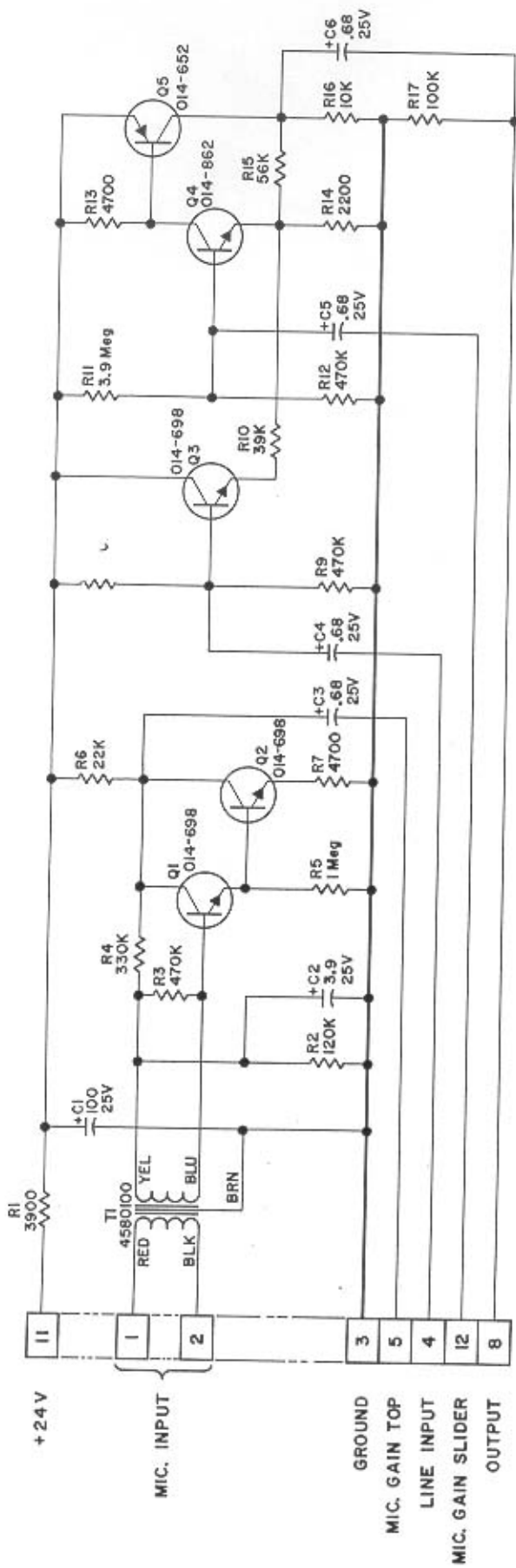
1. ALL RESISTOR VALUES ARE IN OHMS, 1/2W, 10%.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS, AT INDICATED VOLTAGE.
3. ALL DIODES ARE TYPE 013-678.

Fig. 7. Schematic Diagram, Mixer, Sheet 1

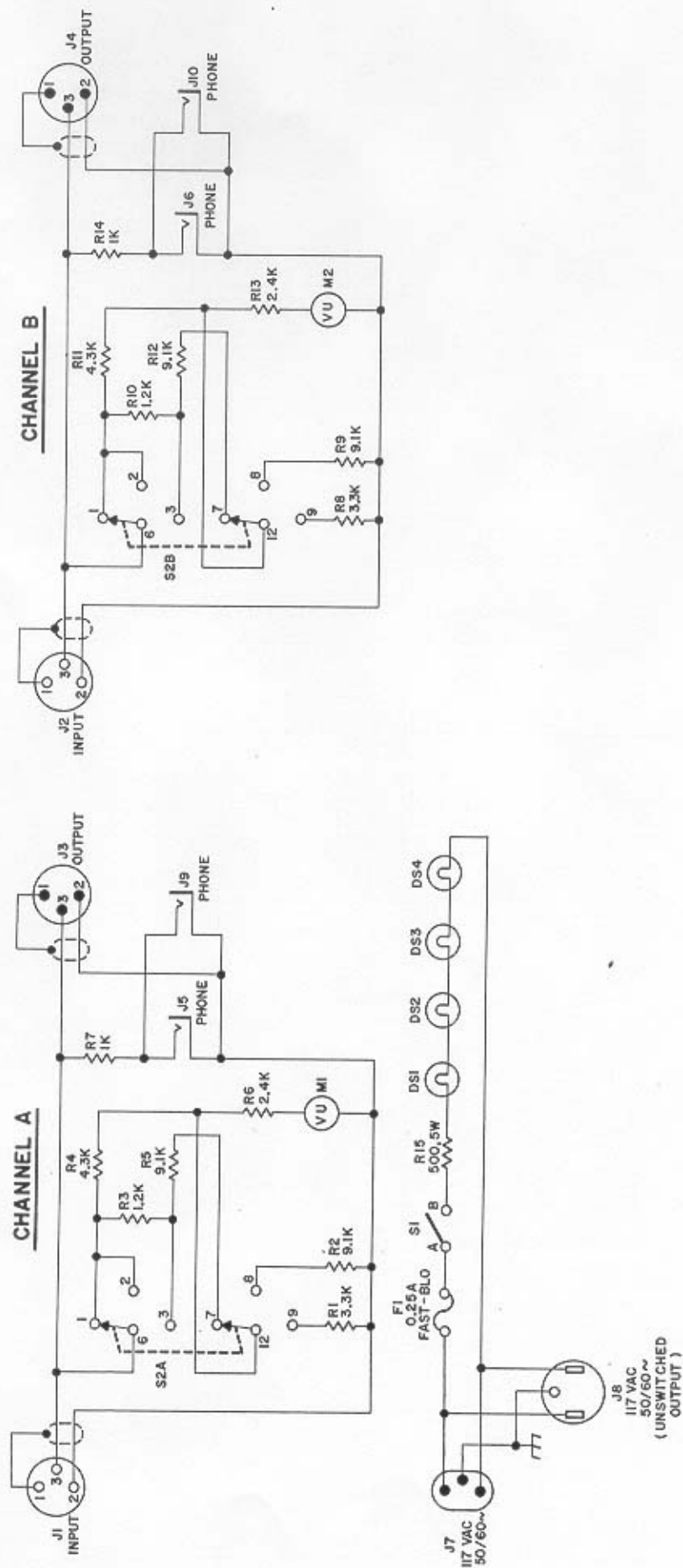


MIXER & LINE AMP  
PRINTED WIRING BOARD

Fig. 8. Schematic Diagram, Mixer, Sheet 2



## MICROPHONE PREAMP PRINTED WIRING BOARD



NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTOR VALUES ARE IN OHMS, 1/2W, 5%.

Fig. 10. Schematic Diagram, Meter Panel