

MODEL PM4-AC-2

DAVID BOGEN CO., INC.

The Model PM4-AC-2 is identical to the PM4-AC except that there is no longer provision for voltage type velotron microphone.

The Model PM4-AC-2 is a four position Mixer and Pre-amplifier, self powered. It can be attached to the input of any amplifier so that any combination up to four high impedance microphones, phonographs or a radio may be blended by the operator.

Power Rating: - 105-125 volts A.C., Consumption 35 watts.

Tubes Used: - Total 5: 4-6F5G; 1-25Z6, Balast type BK-67-B.

Connections: - Shielded microphone receptacles are available on the chassis to connect any high impedance microphone such as velotron (no voltage,) velocity dynamic or crystal. A shielded wire cable is necessary for each of the 4 circuits to minimize hum. The female cable connectors supplied with each of the 4 input connectors should be fitted to the cables from microphones or other source of sound by the following method.

1. Skin off about 1 inch of outer rubber covering, exposing shielding.
2. Cut shielding back so that only 3/8 inch is exposed.
3. Clinch sheet metal sleeve around shielding and trim off any whiskers, clinch small ends around inner rubber insulation only.
4. Remove inner rubber insulation from wire, within 1/8 inch of metal sleeve.
5. Tin wire with solder and cut to about 1/8 inch.
6. Slip cable through connector body and solder wire into hollow end of center contact.
7. Draw cable back into connector body. Force bakelite washer into recessed seat. Tighten set screw into metal sleeve.
8. Never use soldering paste on any microphone connection. Use Rosin core solder.

The Input circuits are all of high impedance and are, therefore, suitable for high impedance microphones, phono-pick-ups, etc. If a low impedance device is used, it is necessary to use a matching transformer, designed for use with that device and having a high impedance secondary (to tube grid). This transformer should be kept one or two feet away from all power transformers to prevent hum pick-up. The strength of signal from radios and phonographs should be kept down by their own volume control so as to prevent overloading the tubes in the pre-amplifier.

Output: - The output circuit of this pre-amplifier is of high impedance and therefore matches the input to other Bogen amplifiers. A shielded cable is necessary in connecting to the input of the power amplifier. It should be kept short to reduce the chance of picking up noise and loss of high tones. A shielded output connector is on the left end of the chassis. Because of the "Gain" obtained in this pre-amplifier it is generally advisable to connect it to the "phono input" terminals of the power amplifier rather than to the "microphone input" terminals.

NOTES: - The PM4-AC-2 or any associated amplifier or device should not be grounded excepting through a paper condenser of not over .25 mfd. Hum may be caused by faulty tubes or by a ground. In some locations hum may be reduced by reversing the 110 volt power plug in the electrical outlet.

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MODEL SLX

