



MODEL 802-PM MICROPHONE PREAMPLIFIER-MIXER OPERATING INSTRUCTIONS

DESCRIPTION

The Raymer Model 802-PM is a monaural all silicon solid state low noise microphone preamplifier-mixer with a circuit designed to eliminate interaction between volume controls. The preamplifier-mixer provides a choice of three input combinations as follows: (1) 4 microphones; (2) 3 microphones and 1 auxiliary; (3) 2 microphones and 2 auxiliaries. Each microphone input has a selector switch to match either high or low impedance microphones (unbalanced). Two of the four channels will accept high level signals such as a tuner or phono. Two outputs are provided: (1) a high level output to match the auxiliary (Phono/Line) input of an amplifier, and (2) a low level output to match the microphone input of an amplifier. Two or three 802-PM outputs may be paralleled into an external amplifier input for a maximum of 12 inputs. An isolated signal ground permits rack mounting of the unit without forming "ground loops".

UNPACKING:

The unit is to be removed carefully from the carton and inspected for any possible damage in transit. If there is any evidence of any damage which might have occurred in shipment, notify your dealer at once, or the transportation company which delivered it. Claims for damage sustained in transit must be made upon the Carrier. Save all packing material for inspection by the claim agent who will furnish you with the proper forms and will also give you the necessary instructions for filing a claim. In addition to the Unit, there should be a warranty card included in the carton.

To insure proper servicing and to protect your rights under the warranty, be sure to fill in the warranty registration card without delay and mail to the factory.

INSTALLATION:

Because of its attractive appearance this unit may be placed on a table or a shelf. Although the unit has ample vents for normal ventilation, sufficient space should be allowed around it to permit free air flow. **DO NOT PLACE** it on top of vacuum tube equipment. **DO NOT STORE OR OPERATE** it in areas where the ambient temperature exceeds 140 degrees Fahrenheit. If installed in a cabinet, ample ventilation must be allowed around the unit.

Plug the AC line cord in any outlet furnishing 105 to 120 volts, 60 cycles AC.

INPUT CONNECTIONS AND CONTROLS

All connections are made on the rear panel of the unit.

The microphone input connections are made by means of phone plugs. The microphone input jacks are for unbalanced lines only. If it is necessary to use a balanced input, an outboard matching transformer must be used. **Due to the high gain involved, a plug with a metal cover, and not a plastic cover, must be used to prevent supersonic oscillation from occurring.** A slide switch is provided to select the proper input impedance for each microphone. The Hi-Z position will match crystal or other high impedance microphones. The Lo-Z position will match microphones in the 150 to 500 ohm impedance range.

When it is desirable to use a high level input such as a tape recorder or crystal phono instead of a microphone, Channel 3 or 4 must be used. The high level input connections are made by means of phono plugs.

The input connected to AUX 3 jack is controlled by the Channel 3 knob and AUX 4 input is controlled by the Channel 4 knob.

OUTPUT CONNECTIONS

Two output levels are provided. The high level output connection is made by means of a phono plug. The low level output connection is made by means of a phone plug. To connect Model 802-PM to an amplifier, a shielded cable with suitable connectors on each end must be used. The high level output will match the auxiliary (Phono/Line) input of an amplifier; the low level output will match the microphone input of an amplifier. For optimum results, a Hi-Z microphone input should be used.

Up to three 802-PM preamplifier-mixer units may be operated in parallel to provide a total of twelve inputs. When paralleling the units, the high level outputs must be connected together.

Model 802-PM can be rack mounted through the use of Rack Panel Kit RPK-1. If the 802-PM is rack mounted with its associated amplifier, or if the case of the 802-PM is connected to the case of the amplifier, the jumper between the terminals marked SIGNAL GROUND and CHASSIS GROUND must be disconnected to prevent "ground loops" caused by multiple grounding.

Because of the low impedance of the 802-PM outputs, the connecting cable to the amplifier may be as long as 200 feet without affecting the high frequency response. When using a longer interconnecting cable, the total capacitance of the cable should not exceed 10,000 mmf, as otherwise high frequency attenuation will occur.

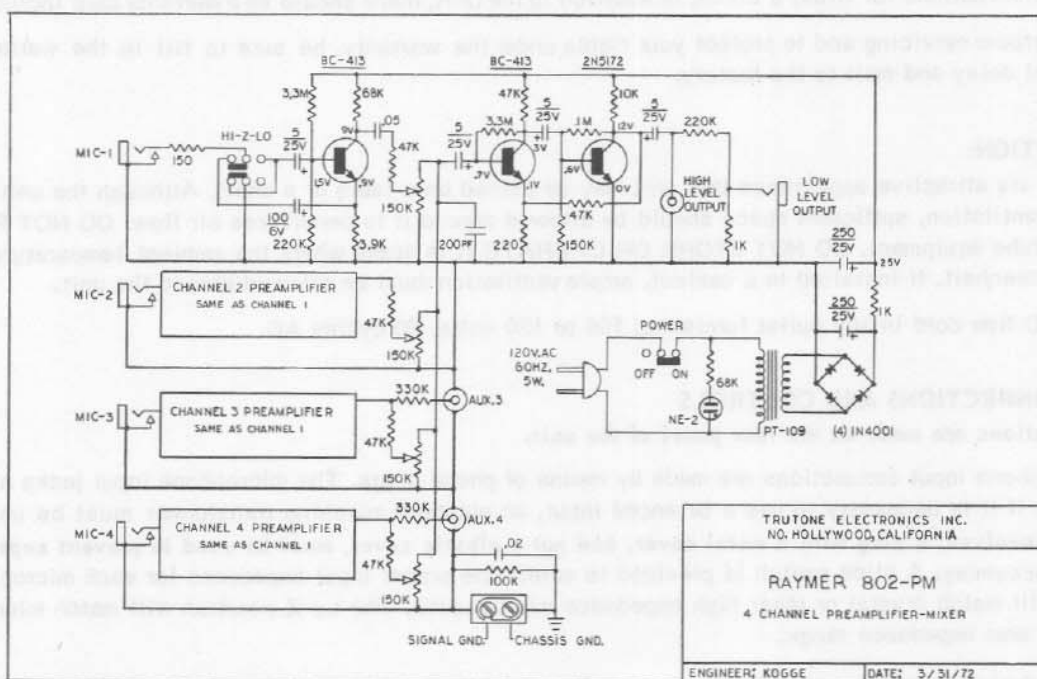
WARRANTY

This unit has been very carefully inspected and should require no further service. Each unit is warranted to be free from defects in material and workmanship under normal use and service for a period of one year from date of delivery to the original purchaser. If this unit appears to be defective, the factory will repair any unit returned within said one year, providing all transportation charges are pre-paid, and which our examination shall disclose to our satisfaction to be defective.

This Warranty does not include free labor, nor is it applicable to any unit which shall have been subject to accident, tampered with, mis-used, abused, or altered in any manner whatsoever. Further, this Warranty shall not apply to any unit which has been connected improperly.

It is recommended that any unit on which service is required, be processed through your dealer wherever possible.

This Warranty is expressly in lieu of all other Warranties, expressed or implied, and of all other obligations or liabilities on our part. We neither assume nor authorize any other person to assume for us any other liability in connection with the products manufactured by Trutone Electronics, Inc.



TRUTONE ELECTRONICS, INC.

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