



OPERATING INSTRUCTIONS



RAYMER MODEL 701 1 WATT AMPLIFIER

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

DESCRIPTION

The Raymer Model 701 is a solid state one watt audio amplifier with built in power supply housed in a sturdy flanged metal box measuring only 5" x 3½" x 2½". All connections and adjustments are made on the front of the unit. Two controls are provided: a power switch to turn the unit on and off, and a thumbwheel adjustment to set the output level. One input is provided: this input has an impedance of 50,000 ohms and requires a minimum voltage of .06 volts to obtain a one watt output.

Two outputs are provided; the 8 ohm output permits direct connection to a speaker voice coil, and the 500 ohm output may be used to drive a balanced line at a +4 dbm (1.23 V.) level.

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, immediately notify your supplier,

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.

INSTALLATION

The 701 may be mounted to a wall by using four #6 screws through the flanges of the unit. Do not store or operate the unit in areas where the ambient temperature exceeds 140°F.

The power cord should be connected to a 120 volt 60Hz power source. Because of the low 5 watt power consumption, the unit may be left running continuously without heat build-up. However if it is desirable to turn the unit on an off with its associated equipment, the power cord should be plugged into the convenience outlet of the amplifier or receiver with which it is used.

WARRANTY

This unit has been very carefully inspected and 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 sale to the original purchaser. This Warranty does not extend to any unit which has been subject to abuse, misuse, neglect, accident, improper installation, or alterations. The obligation of Trutone Electronics under this Warranty is limited to the repair of any defect in material or workmanship and/or the replacement of any defective part, provided the unit is returned to Trutone Electronics Inc. transportation paid within the year.

It is recommended that any unit on which service is required be processed through your distributor or installation company 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.

Made in U.S.A. by

TRUTONE ELECTRONICS, INC. 7315 Fulton Avenue • North Hollywood, California 91605 • (213) 875-0423

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CONNECTION

The audio input to the amplifier may be made by one of two means: either the phono jack may be used or the two screw terminals marked INPUT. When using the screw terminals, the center conductor of the shielded cable is connected to the top terminal and the shield is connected to the second terminal marked with a ground symbol.

Speaker connections should be made to the two screw terminals marked 8 Ω . This output will properly match speaker impedances of 4, 8 or 16 ohms. **DO NOT CONNECT 8 ohm headphones directly across these terminals as sound pressure levels will be obtained which could cause hearing damage.** Headphone jacks should be wired as shown in Figure 1. One Model 701 amplifier can drive up to 20 pair of headphones when connected in this arrangement.

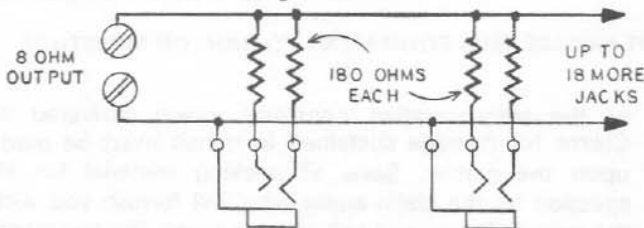


FIGURE 1: HEADPHONE JACKS REQUIRE DROPPING RESISTORS.

The 500 Ω output is provided to drive a telephone line or 500/600 ohm audio line. It is not intended to

drive a speaker, since this output represents only a few milliwatts. The 500 ohm output and the 8 ohm output may be loaded simultaneously with no mismatch of the amplifier output.

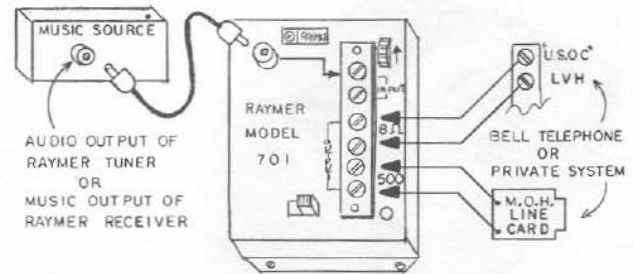
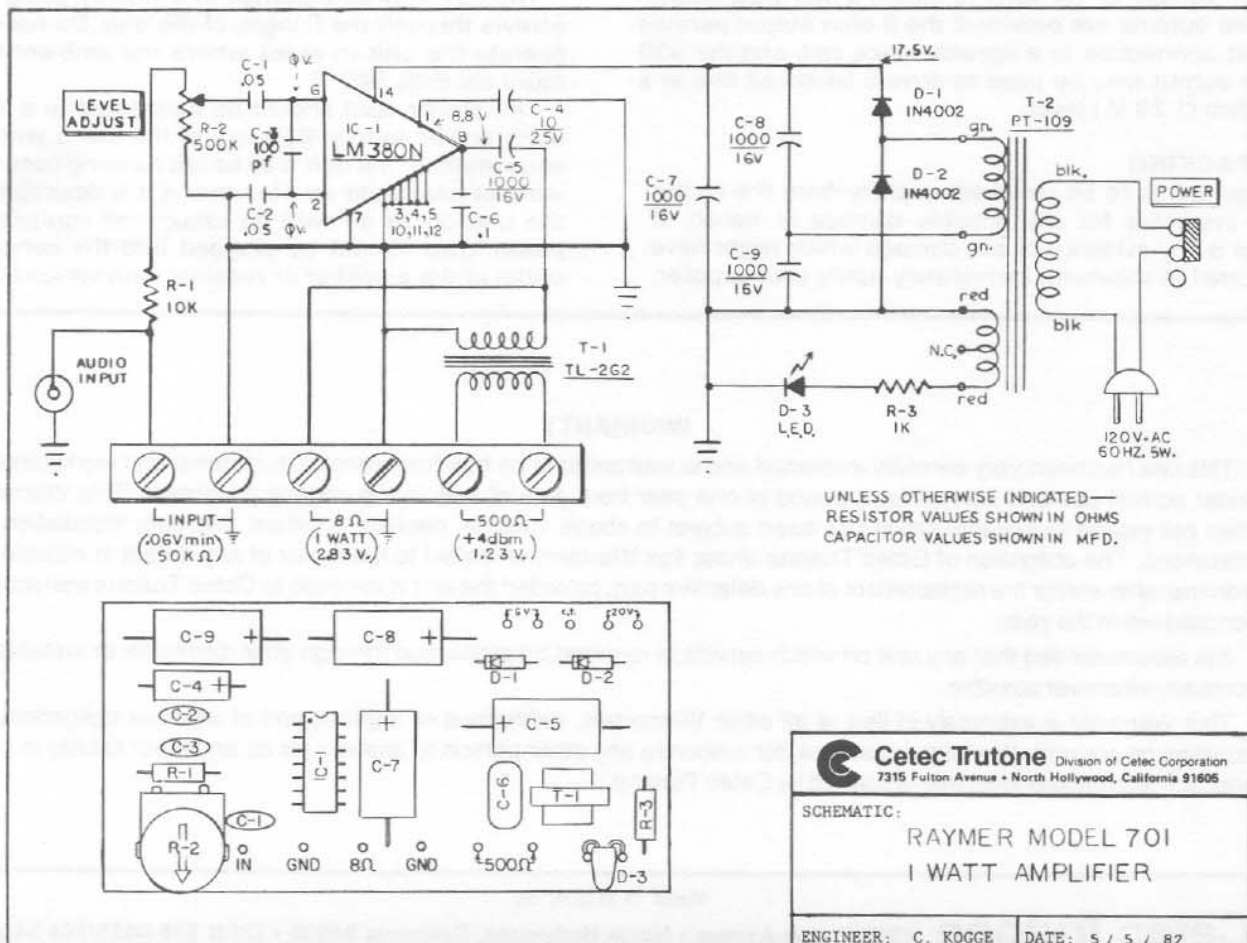


FIGURE 2: TYPICAL MUSIC-ON-HOLD CONNECTION ARRANGEMENTS.

MUSIC-ON-HOLD

The 701 may be used to match the music output of a RAYMER tuner or receiver to various music-on-hold arrangements. The music-on-hold line cards in privately owned systems such as N.E.C. and T.I.E. require a 500 ohm input. The Bell Telephone arrangement, identified by their USOC (universal service order code) as LVH, requires an 8 ohm input. When used to drive one of these arrangements, the audio input of the 701 should be connected either to the AUDIO OUTPUT of a Raymer tuner or the MUSIC OUTPUT of a Raymer receiver.



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SCHEMATIC:

RAYMER MODEL 701
1 WATT AMPLIFIER

ENGINEER: C. KOGGE

DATE: 5 / 5 / 82