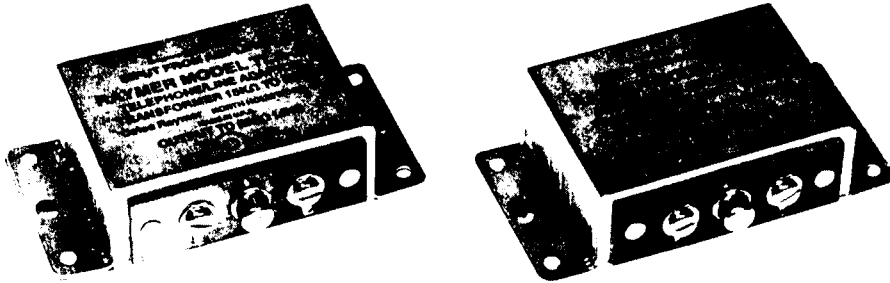




RAYMER



MODEL TLA-25 AND TLA-70 TELEPHONE/LINE ADAPTOR TRANSFORMERS

DESCRIPTION: The Raymer Models TLA-25 and TLA-70 match a speaker line or amplifier output to a 500/600 ohm line or leased phone line for the transmission of background music and/or paging at the required signal level.

The Model TLA-25 is for use with the 25 volt amplifier output, or the TLA-70 is for use with the 70 volt amplifier output. Since the TLA unit only requires a few milliwatts from the speaker line, the loading effect on the amplifier is negligible.

Connection to the 25/70 volt input is made by means of screw terminals. Line output connections may be made either by means of a standard phono plug or two convenient screw terminals. Line output connections may be made either by means of a standard phono plug or two convenient screw terminals. The case is electrically isolated from all connections.

Each transformer is housed in a cadmium plated steel box 3 1/2" x 2 1/2" x 1" which may be secured to most surfaces by means of #6 screws through holes provided in the mounting flanges, or it may be mounted with double-sided tape.

GUARANTEE

Each adaptor is guaranteed to be free from electrical and mechanical defects for a period of one year from date of shipment from the factory. If any adaptor appears to be defective, return to the factory for repair. This guarantee is void if the adaptor shows any sign of having been damaged or tampered with.

APPLICATION: The Raymer Model TLA-25 or TLA-70 may be used to match an amplifier output or speaker line to a 600 ohm line or leased phone line for the transmission of background music and/or paging to a remote location. An alternate application for the TLA-25 or TLA-70 is to match a speaker line to the auxiliary input of a booster amplifier for the purpose of expanding an existing speaker system.

When the TLA unit is used to distribute background music or voice communication over a distance of several blocks or between floors of large buildings, the most practical approach is to lease an "unconditioned line" from the telephone company. There are certain restrictions which the telephone company imposes when permitting such a lease in order to prevent damage to their lines or crosstalk to adjacent lines. A TLA device must be used in this case to comply with the balance, voltage and power level limits. The output terminals of a power amplifier should never be directly connected to a phone line unless specifically identified for that purpose. In order to properly match the audio input of the amplifier at the receiving end of the line, a Raymer Model TM-2 Telephone Matching Adaptor should be used between the amplifier and the telephone line. A typical example is shown in figure 1. The Raymer Model ACR-1 Audio Controlled Relay may be used in place of the Model TM-2 if control functions such as music mute are required when an audio signal is present on the line.

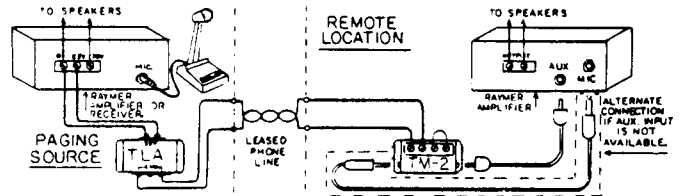


FIGURE 1: TYPICAL CONNECTION FOR PAGING OVER LEASED TELEPHONE LINES.

Since the 600 ohm output of a TLA unit is at line level, this output may be used as the source to the auxiliary input of an amplifier. An RCA jack is provided on the output in addition to the screw terminals as a convenience in making such a connection. These features make it possible to extend an existing speaker line by the use of a booster amplifier, without the necessity of running additional wire back to the originating amplifier.

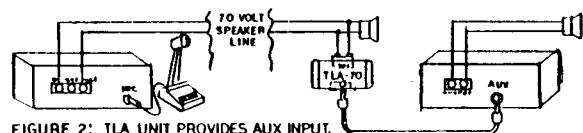


FIGURE 2: TLA UNIT PROVIDES AUX INPUT.

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