

MATCHING TRANSFORMER MODEL T-373

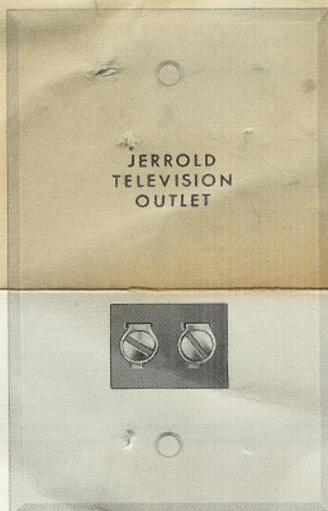
Description

Model T-373 is a flush, wall-plate mounting R.F. impedance-matching transformer with a 75 ohm primary and a 300 ohm secondary.

The Jerrold Model T-373 Matching Transformer is designed to provide the proper impedance-match between 75 ohm and 300 ohm devices. When used as a system matching transformer, it provides a voltage step-up of 5 to 6 db across the VHF band, 54-216 megacycles, from the 75 ohm primary (tap-off) to the 300 ohm secondary (receiver). The circuitry provides the necessary R.F. isolation to the cable system. When used as recommended, complete ac isolation is afforded the system from transformerless receivers ("hot chassis").

The excellent V.S.W.R. of the unit makes it suitable for other applications where a 300 ohm to 75 ohm match, across the VHF band, is desired.

The unit mounts in a standard 2" x 4" electrical outlet box, or a 4" x 4" box with single gang plaster cover (or 1/2 of 4" x 4" box).



MODEL T-373

SPECIFICATIONS

IMPEDANCE:

Primary: 75 ohms
Secondary: 300 ohms

V.S.W.R.:

Low-Band: 1.2 Max.
High-Band: 1.3 Max.

BANDWIDTH:

Essentially flat,
Channels 2 to 13

VOLTAGE GAIN:

6 db—75 ohms to 300 ohms

INSTRUCTIONS

1. Connect unit into feeder line (See Figure 1 and Figure 2.)

A. Prepare ends of coaxial cable as follows:

(1) Strip off $1\frac{1}{8}$ " of outer jacket.

(2) Cut braid flush with outer jacket and strip off $\frac{9}{16}$ " polyethylene dielectric (make cut completely around poly with sharp knife, taking care not to nick center conductor, rotate piece of poly until it comes off clean.)

(3) Slide ferrule onto cable.

B. Insert the cable into the B-59

coaxial bushing so the shaft enters between the poly and the braid. Push in until outer jacket butts shoulder of bushing.

C. Wrap center conductor under screw head and tighten.

D. Push ferrule over shaft of bushing and crimp tightly to make good connection between cable shield and bushing.

2. Use 6-32 x $\frac{3}{4}$ screws provided to mount in outlet box.

3. Connect 300 ohm line from antenna terminals of receiver to screw terminals on front of unit.

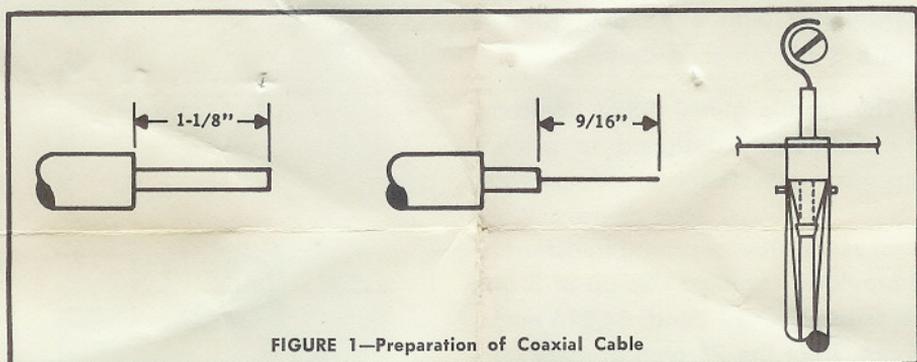


FIGURE 1—Preparation of Coaxial Cable

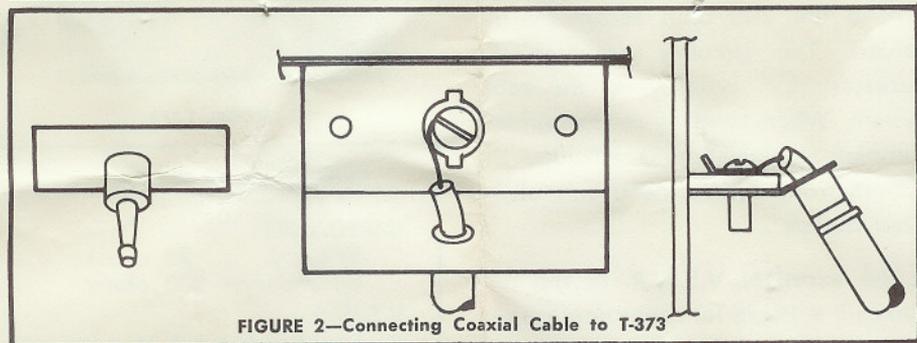


FIGURE 2—Connecting Coaxial Cable to T-373

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