

ALL - CHANNEL UNIVERSAL SNAP ON TRANSFORMER MODEL MUV-382

DESCRIPTION

Jerrold Model MUV-382 is an antenna mounting, impedance matching transformer for converting the 300-ohm balanced output impedance of any antenna to that of 75-ohm coaxial cable. The unit exhibits low loss and excellent match and balance over the VHF and UHF TV bands as well as the f-m band. Model MUV-382 is housed in a high-impact Cyclac case and is equipped with one threaded "F" type output connector and a pair of metal straps which serve as input connectors. The straps are designed to flex in two directions for facilitating connection of the unit to any 300-ohm TV antenna terminal configuration; punched slots are provided at regular intervals so that each strap may be cut to the desired length.

One snap-on Cyclac mounting clip is supplied for square antenna crossarms, while an additional metal adapter insert is supplied for round crossarms. One Model F-659 threaded universal coaxial connector is provided, as well as a Model WB-61 weatherboot with sealing ring.

SPECIFICATIONS

PASSBAND	54 to 216 MHz, Chan. 2 thru 13
	470 to 890 MHz, Chan. 14 thru 83
INSERTION LOSS (nominal)	1.0dB, 54 to 216 MHz
	2.75dB, 470 to 750 MHz
	3.5dB, 750 to 890 MHz

INSTALLATION

Materials and Tools Required

A ruler (1/16" divisions), a sharp knife, a pair of cutting pliers, a pair of scissors, a small file, a Jerrold Model PL-659 crimping tool, a 7/16" open-end wrench, a small common screwdriver, a suitable all-channel coaxial down-lead, such as Jerrold CAC, one additional "F" type coaxial fitting, and Silicone weather-proofing compound, if available.

NOTE: Jerrold Model CAD coaxial cable kits contain low loss, all-channel cable with "F" type fittings and a weatherboot installed.

Mounting and Connection

1. Push the transformer housing into the mounting clip until they are locked together. See Figure 1.

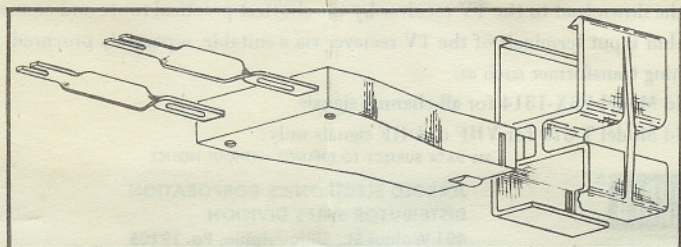


FIG. 1 MODEL MUV-382 WITH MOUNTING CLIP

2. Hold the unit in the desired position against the crossarm and mark the required terminal strap lengths; ensure that they will be long enough, then cut each strap at the center of the relevant slot.
3. Loosen the antenna terminal-screws and engage the slotted tabs of the straps, tighten the terminal screws, then snap the assembly onto the crossarm. See Figure 2.

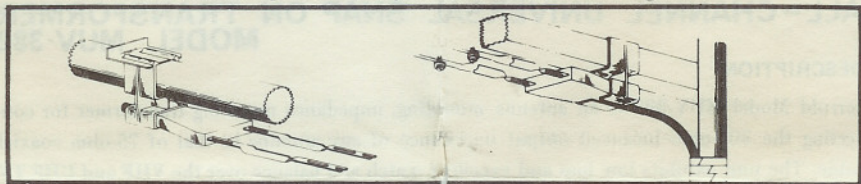


FIG. 2 MODEL MUV-382 MOUNTED ON SQUARE OR ROUND CROSSARM

4. Slide the weatherboot, small end first, over one end of the down-lead.
5. Consult Figure 3 and prepare each cable end as follows:
 - a. Remove $7/16$ " of the outer jacket, then fan the shield back over the jacket and trim the shield close to the edge of the jacket.
 - b. Remove $1/4$ " of the dielectric without nicking the center conductor; scrape off any fuzz from the surface of the center conductor and file any burrs from its end.

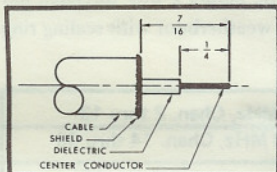


FIGURE 3

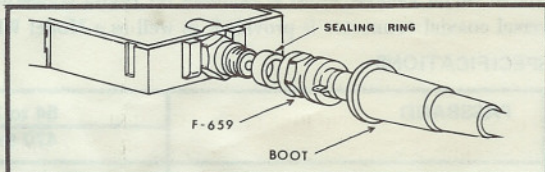


FIGURE 4 WEATHERBOOT CONNECTION

6. Where RG-59/U type cable is employed, slip the ferrule over the cable end, and push the connector mandrel between the cable dielectric and shield until the mandrel is completely covered. Next, position the ferrule over the enclosed mandrel and crimp the ferrule with a Model PL-659 crimping tool.
7. Where RG-6/U type cable is employed, first expand the mandrel by inserting the plastic tool provided into the threaded end of the connector and pushing it all the way through the mandrel, then proceed as in step 6 above.
8. Slide the weatherboot sealing ring onto the F-61 fitting of the MUV-382, then thread the cable connector onto the fitting. See Figure 4.
9. Hand-tighten, then wrench-tighten the connector not more than $1/6$ of a turn.
10. Apply a liberal coating of Silicone weatherproofing compound to all terminals, then slide the weatherboot over the coaxial cable connection so that it butts against the transformer housing.
11. Run the down-lead to the TV receiver by the shortest practical route and connect it to the 300-ohm input terminals of the TV receiver via a suitable, separately procured, impedance matching transformer such as:
 - Jerrold Model FSX-1314 for all-channel signals.
 - Jerrold Model T-379 for VHF or UHF signals only.

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