



TUNES ALL UHF CHANNELS ON ANY TV SET
FOR COLOR AND BLACK AND WHITE

ULTRAVERTER[®]

Model BTX-11A

ALL TRANSISTOR UHF TO VHF
CONVERTER/AMPLIFIER

INSTRUCTION MANUAL

DESCRIPTION

The Blonder-Tongue Model BTX-11A is an advanced solid-state UHF converter-amplifier designed by a renowned industrial designer and engineered to permit reception on any TV set of channels 14 thru 83. Incoming UHF channels are converted to either VHF channels 5 or 6 (whichever is unused in your area). The BTX-11A is especially effective in difficult reception areas because of the built-in amplifier stage. Designed to comply with Underwriters Laboratories specifications, the BTX-11A is manufactured under rigid quality control conditions to assure long life and a high degree of reliability.

INSTALLATION

1. Slide the two rubber extrusions over the feet of the cabinet starting from the back. Now your converter can be placed in any convenient location on or near your TV set. Figure 1 shows a typical placement of the BTX-11A on a TV set.

2. Figures 2, 3, 4, and 5 show how the converter is connected to the antenna and the TV set.

In strong signal areas, an indoor UHF antenna such as the Blonder-Tongue Golden Arrow may be satisfactory. Elsewhere an outdoor antenna such as the Blonder-Tongue Golden Dart is recommended. Ordinary

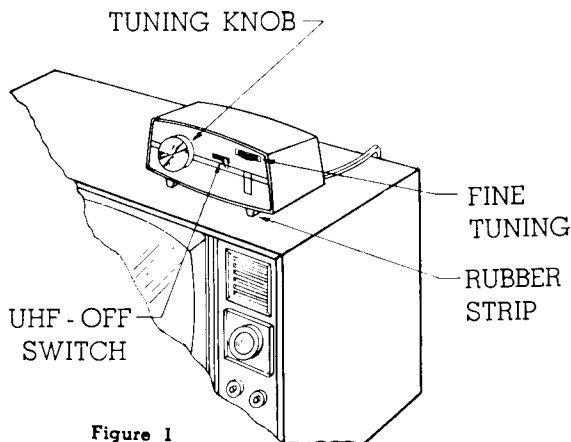


Figure 1

For UHF Reception Only

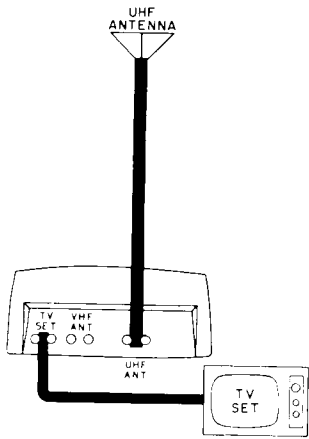


Figure 2

Connect the lead from the antenna to the terminals on the back of the converter marked "UHF ANT". Connect twinlead from the "VHF" terminals on your TV set to the converter terminals marked "TV Set".

For UHF and VHF Reception Using Two Separate Antennas

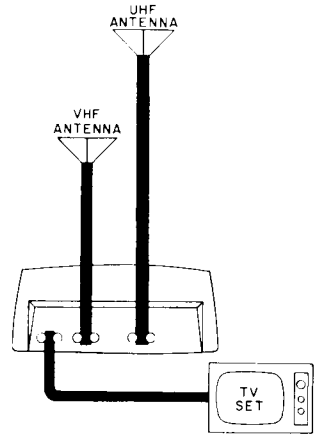


Figure 3

Connect lead from the "UHF" antenna to the terminals marked "UHF ANT". Connect twin lead from the "VHF" terminals on your TV set to the converter terminals marked "TV Set". Connect the twinlead from the "VHF" antenna to the terminals marked "VHF ANT".

For UHF and VHF Reception Using Only One Antenna

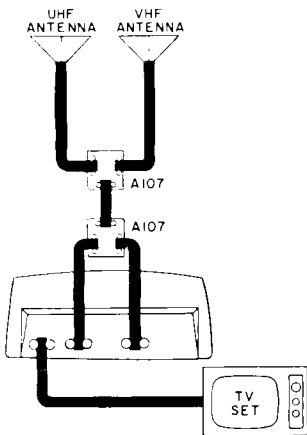


Figure 4

You may have difficulty stringing separate twinleads from each of the two antennas. If you wish you can combine the signals from the "UHF" antenna and the "VHF" antenna into a single lead by using two Blonder-Tongue model A-107 couplers as shown in Figure 4.

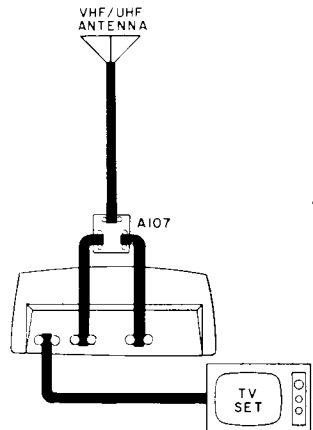


Figure 5

In a good signal area, a single VHF antenna can be used to receive both UHF and VHF stations. Connect the antenna to the converter through a Blonder-Tongue model A-107 coupler as shown in Figure 5.

INSTALLATION (Con't)

TV twin lead can be used indoors, but for outdoor installations, high quality polyfoam UHF twinlead (such as Belden 8285) is recommended. Prepare polyfoam UHF twinlead end as shown in Figure 6 by gradually thinning down insulation with a knife (or a razor blade.) Figure 7 shows how to attach twinlead to the terminals. It is not necessary to strip the insulation away from flat twinlead. Contact is made by the sawtooth washer at each terminal. Slide the twinlead under the sawtooth washers, as shown, then tighten the screws so that these washers pierce the twinlead, making electrical contact with the wires inside. Be careful not to strip the threads of the terminal screws by turning them too hard. If twinlead does not fit snugly between screws, angle it as shown dotted in Figure 7.

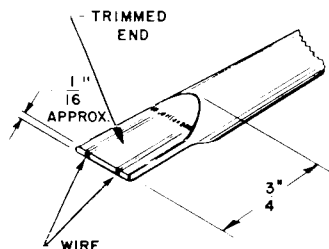


Figure 6

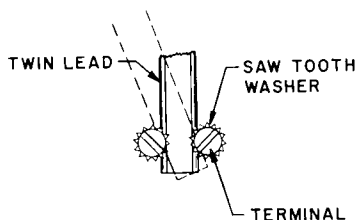


Figure 7

OPERATION

1. Plug the converter line cord into any 110-120 volt AC outlet. Then plug your TV set into the AC outlet at the rear of the converter.
2. Turn the TV set on and move the converter switch to the "UHF" position.
3. Switch the TV set to channel 5 or 6 (whichever is unused in your area). Then set the TV fine tuner to the center of its range.
4. Turn the converter Main Tuning knob to the UHF channel desired and then tune for best sound and picture with the converter Fine Tuning knob.
5. For VHF reception or when converter is not in use, throw "UHF-OFF" switch to the "OFF" position.

SERVICE

Your Blonder-Tongue Converter has been carefully designed to give you long trouble free service. Cool running, fully solid state circuitry insures the ultimate in performance, reliability, and dependability.

In the event of trouble, carefully check all connections between the converter and your TV set. If this does not restore normal operation, return the converter to your dealer.

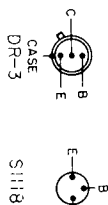
If you are unable to return the converter to your dealer, you may send it directly to Blonder-Tongue for service. Enclose a note describing the trouble, your return address, then pack the converter carefully and send it postage paid to:

**BLONDER-TONGUE SERVICE DEPARTMENT
9 ALLING STREET
NEWARK, NEW JERSEY 07102**

Units under warranty (see warranty card) will be repaired and returned to you postage paid, free of charge. Older converters will be repaired as inexpensively as possible and returned parcel post, C.O.D.

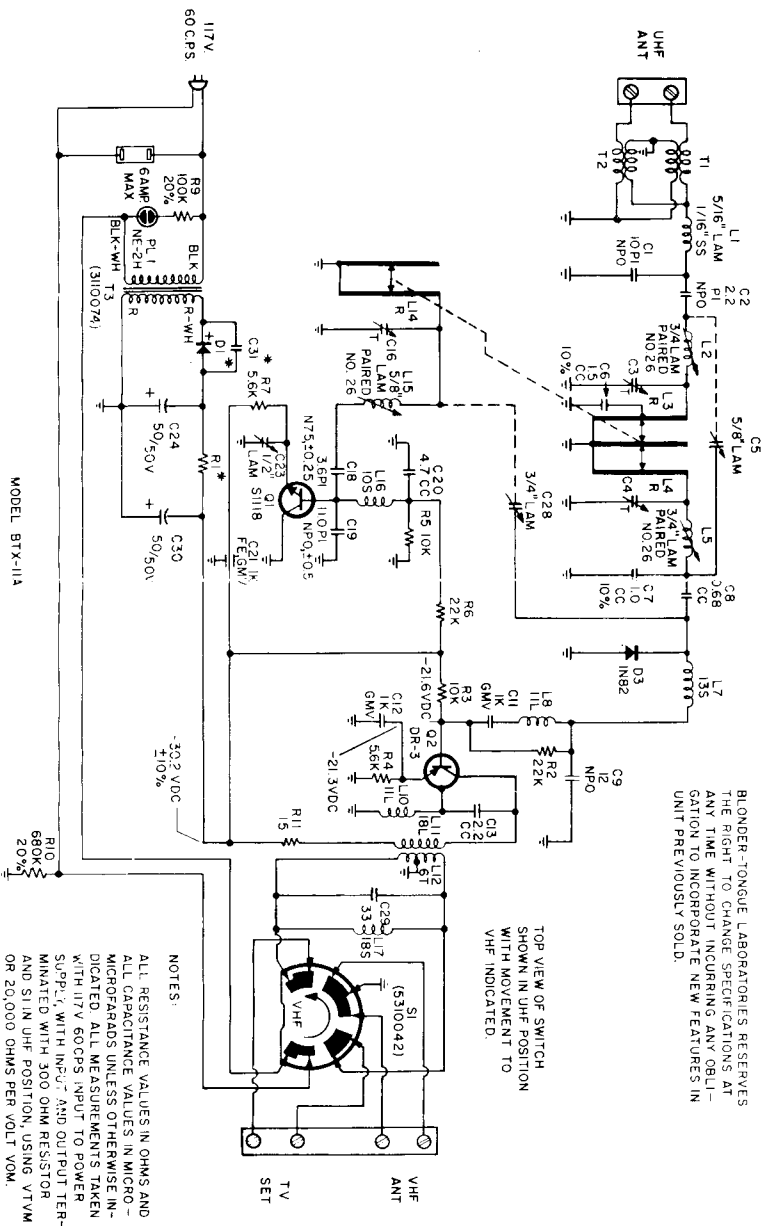
* VARIABLE COMPONENTS			
D1	SELENIUM RECTIFIER	SILICON RECTIFIER	15K
R1	1K	15K	
C31	—	1K GMV	

1. ALL RESISTORS ARE 1/4 WATT 10% UNLESS OTHER WIDE SPECIFIED. K=1,000. M=1,000,000.
2. ALL CAPACITORS ARE CERAMIC UNLESS OTHERWISE SPECIFIED. MFD=MICROFARAD. VALUES IN FOLLOWING CODE:
 - * ELECTROLYTIC
 - GMV: GUARANTEED MIN. VALUE
3. SEVEN DIGIT NUMBERS ARE 3 1/2 PART NUMBERS



BLONDER-TONGUE LABORATORIES RESERVES THE RIGHT TO CHANGE SPECIFICATIONS AT ANY TIME WITHOUT INCURRING ANY OBLIGATION TO INCORPORATE NEW FEATURES IN UNIT PREVIOUSLY SOLD.

TOP VIEW OF SWITCH SHOWN IN UHF POSITION WITH ADJUSTMENT TO VHF INDICATED.



NOTES:

ALL RESISTANCE VALUES IN OHMS AND ALL CAPACITANCE VALUES IN MICRO-MICROFARADS UNLESS OTHERWISE INDICATED. ALL MEASUREMENTS TAKEN WITH 117V 60CPS INPUT TO POWER SUPPLY. WITH INPUT AND OUTPUT TERMINATED WITH 300 OHM RESISTOR AND S1 IN UHF POSITION, USING VTVM OR 20,000 OHMS PER VOLT VOM.

MODEL BTX-11A