

# **iBox**

## **VARIABLE**

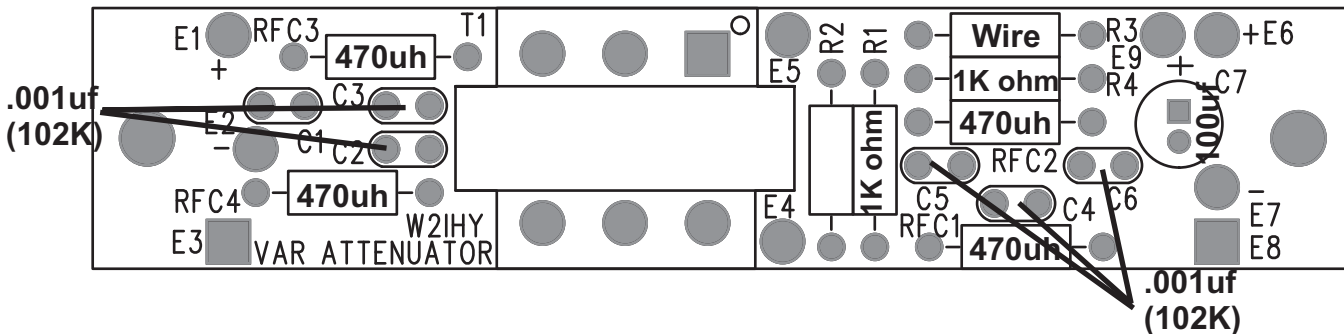
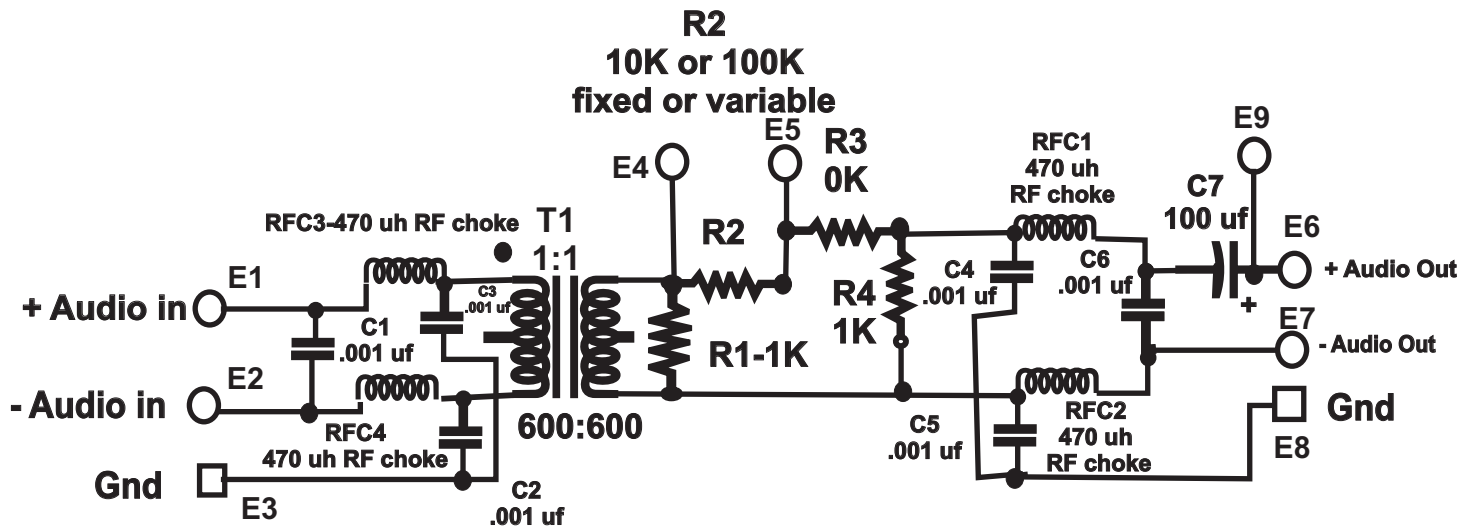
### **ATTENUATOR KIT**



## **ASSEMBLY**

### **INSTRUCTIONS**

# Variable Attenuator Board Assembly Instructions

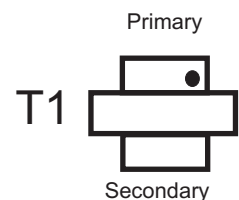


-----Parts List-----

- |   |   |
|---|---|
| C1-C6 - .001 uf mylar                       | R2 - fixed resistor or variable potentiometer |
| C7 - 100 uf radial electrolytic             | R5- 47K ¼ watt 5% resistor (not on PC board)  |
| C8,C9 - .1 uf monolithic ceramic capacitors | RFC1 - RFC4 - 470 uh miniature r.f. Choke     |
| R3 - 0 ohms                                 | T1 - 1:1 600 ohm Audio Transformer            |
| R1,R4 - 1K ohm ¼ watt 5% resistor           |   |

Install the following parts on the PC board

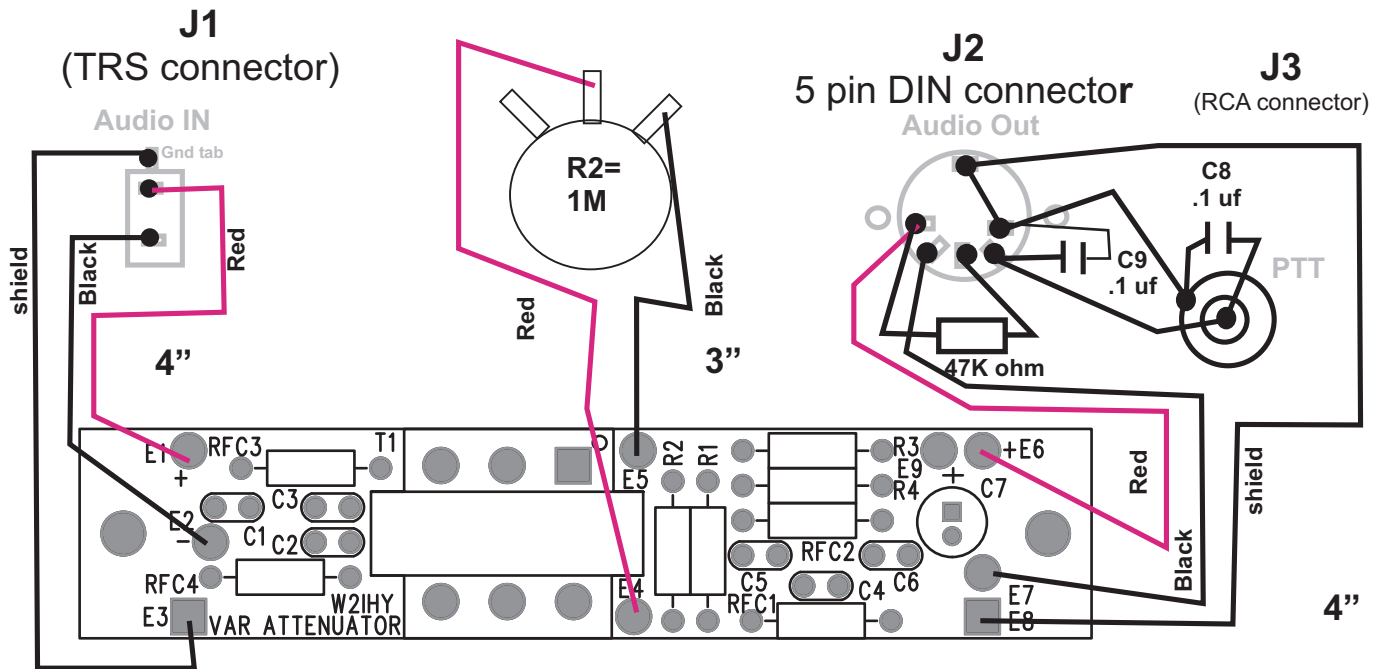
- ( ) Install RFC 1 - 470 uh RF choke: yellow-purple-brown
- ( ) Install RFC 2 - 470 uh RF choke: yellow-purple-brown
- ( ) Install RFC 3 - 470 uh RF choke: yellow-purple-brown
- ( ) Install RFC 4 - 470 uh RF choke: yellow-purple-brown
  
- ( ) Install R1 - 1K ohm ¼ watt resistor brown-black- red
- ( ) Install R3 - put a piece of wire in for R3
- ( ) Install R4 - 1K ohm ¼ watt resistor brown-black- red
  
- ( ) Install C1 - .001 uf ceramic(102K) blue capacitor
- ( ) Install C2 - .001 uf ceramic(102K) blue capacitor
- ( ) Install C3 - .001 uf ceramic(102K) blue capacitor
- ( ) Install C4 - .001 uf ceramic(102K) blue capacitor
- ( ) Install C5 - .001 uf ceramic(102K) blue capacitor
- ( ) Install C6 - .001 uf ceramic(102K) blue capacitor
- ( ) Install C7 - 100 uf radial electrolytic (polarized) longest lead to positive
  
- ( ) Install T1 the 1:1 audio transformer . Please note transformer orientation  
Dot on transformer aligns with dot on PC board



YOU HAVE COMPLETED WIRING THE PC BOARD

# WIRING THE INTERNALS OF THE iBOX

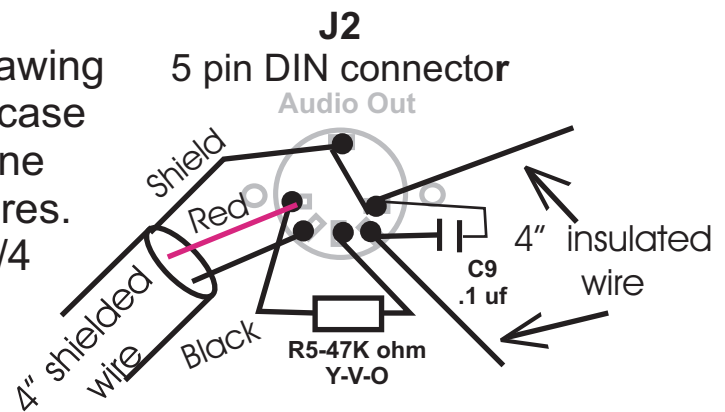
## FIGURE 1 (Pictorial)



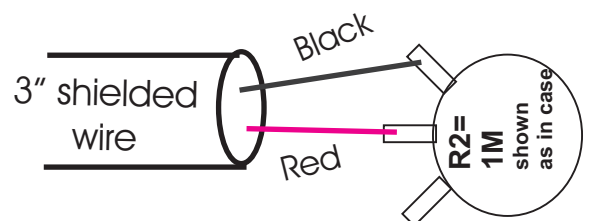
J1, J2, J3 and R2 shown as mounted inside the case

Figure 1 (above) shows the wiring of the iBox printed circuit board to the rest of the components. Figure 2 on page 4 is a picture of an assembled iBox.

- ( ) Wire the DIN connector (J2) per the drawing on the right. Do not put the DIN in the case at this time. This requires you to use one Din connector, two 4 inch insulated wires, one 4" shielded cable, one 47K ohm 1/4 watt resistor (Y-P-O) and one .1 uf monolithic capacitor (104).



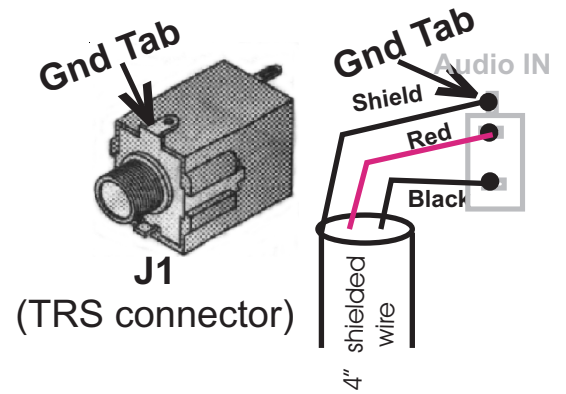
- ( ) Wire the 1M potentiometer (R2) per the drawing on the right. Do not put the potentiometer in the case at this time. This requires you to use one 100K ohm potentiometer and one 3" shielded cable where the shield is not used.



# WIRING THE INTERNALS OF THE iBOX

Figure 1 (on page 3) shows the wiring of the iBox printed circuit board to the rest of the components. Figure 2 (below) is a picture of an assembled iBox.

- ( ) Wire the TRS Jack (J1) per the drawing on the right. Do not put the TRS Jack in the case at this time. You will require the TRS jack and one 4" piece of shielded cable.

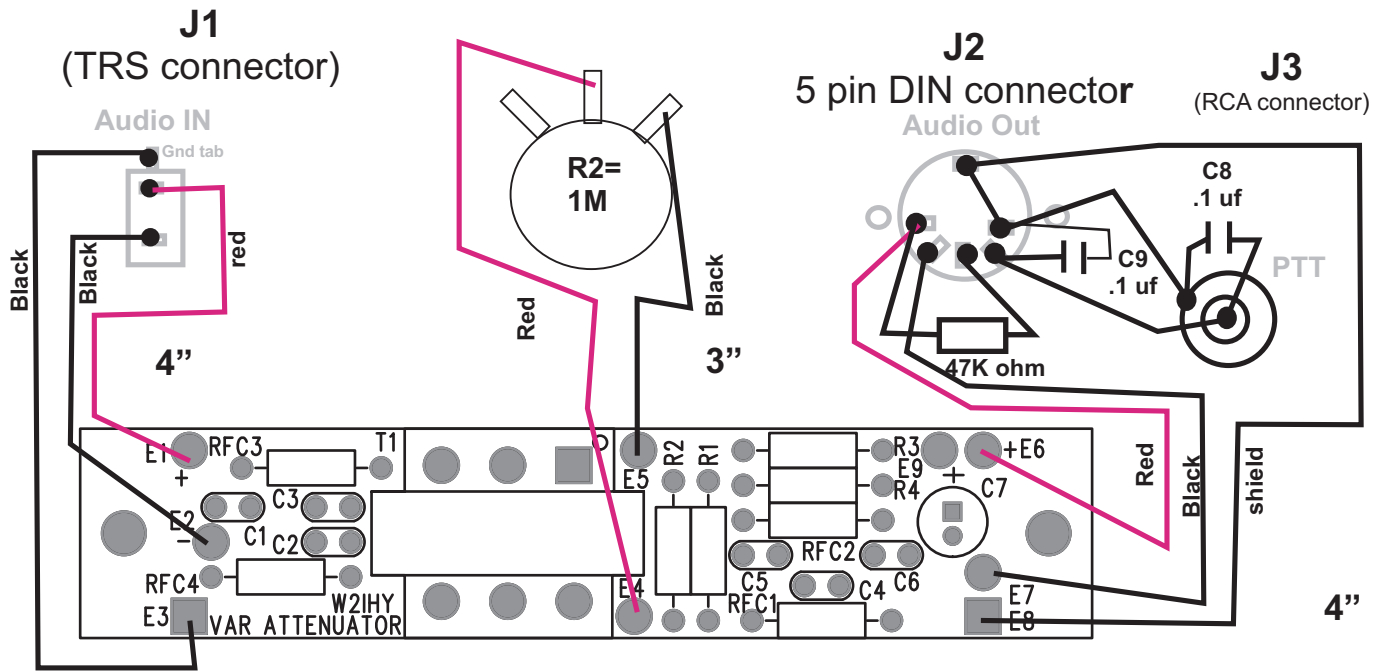


- ( ) Place J1, R2, J2 and RCA jack J3 in the case as shown in Figure 2. Use 2- 4-40 x 1/4 " screws with a star lock washers and nuts to secure the DIN jack. Orient the DIN Jack such that the pins are near the bottom of the case. Orient the TRS jack such that the Gnd tab is at the open end of the case.



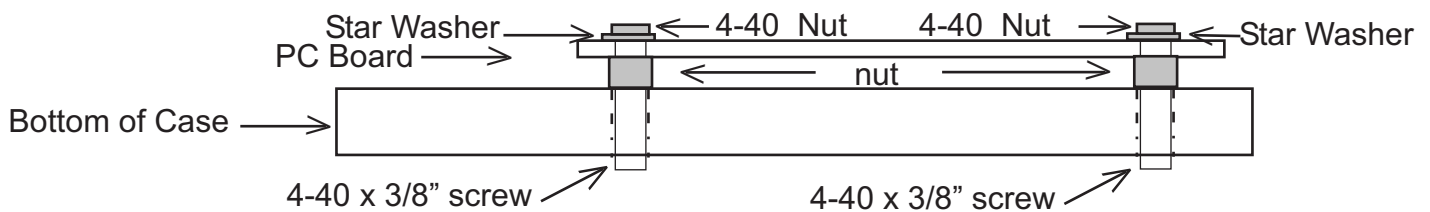
**FIGURE 2**  
**(Layout and Placement)**

# WIRING PICTORIAL DIAGRAM



J1, J2, J3 and R2 shown as mounted inside the case

- ( ) Wire the components together as shown in the picture above. Please note that C8 is a ,1 uf monolithic ceramic capacitor.
- ( ) Attach the printed circuit board to the lower case positioning it as per figure 2 on page 4.



- ( ) Secure the bottom of the case to the top with the 4 black screw,
- ( ) Attach the knob to the potentiometer R2

Congratulations. You have completed assembling the iBox. Go to page 6 in your iBox operating manual to the Quick start tutorial to see how to operate the unit.