

Tools Required:

1. #2 Phillips screwdriver
2. 3/16 in (5 mm) flat blade screwdriver

High Pass Filter Requirements:

The TK-150 is designed to be used with a 50 Hz Butterworth 24 dB/octave active high-pass filter inserted in the signal chain at the input to the driving amplifier. This filter protects the amplifier from damage caused by transformer saturation at low frequencies and allows any number of transformers to be driven on the same line, up to the rated power of the amplifier. The TK-150 is capable of delivering up to 300 Watts to the loudspeaker using the following configuration. Connect a 100 V drive line to the tap labeled, DO NOT USE (150 W at 70.7 V). Insert a Butterworth 24 dB/octave active high-pass filter tuned to 66 Hz or higher in the signal chain at the input to the driving amplifier. Due to the band limited spectrum of the EN54-24 simulated program signal (89 Hz - 11.2 kHz) the EN54-24 rated power handling is certified up to 400 Watts at the 100 V drive line.



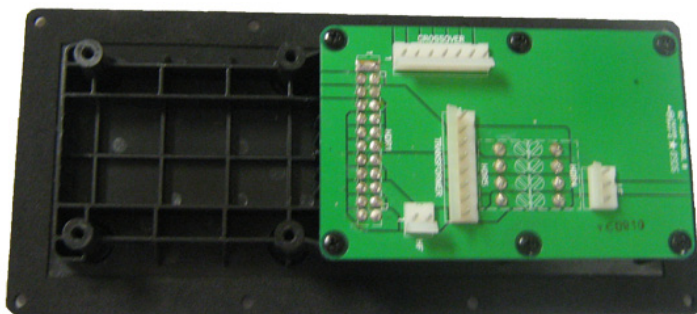
Caution!

Failure to use the proper high-pass filter may result in damage to the amplifier.

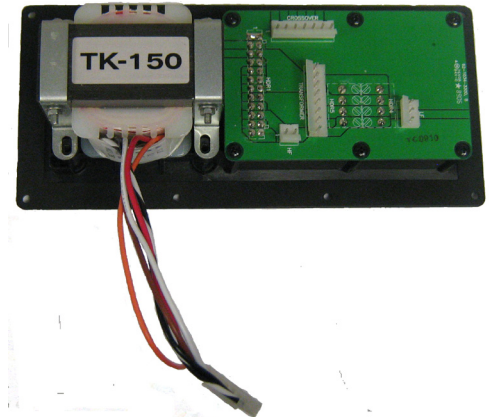
Instructions:

To install the TK-150, do the following:

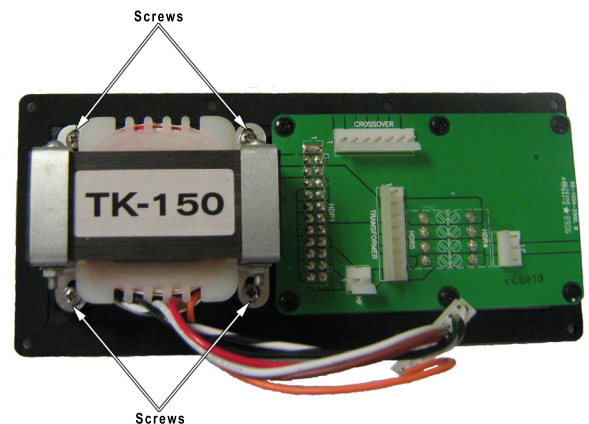
1. Remove the input panel by removing the eight (8) screws securing it.
Make note of the original orientation prior to removing the input panel.
2. Unplug the crossover wiring harness from the 7-pin header.
3. Place the input panel horizontally face down with the green circuit board on the right.



4. Place the transformer in the pocket on the left.
The lead wires from the transformer should be pointed toward you.

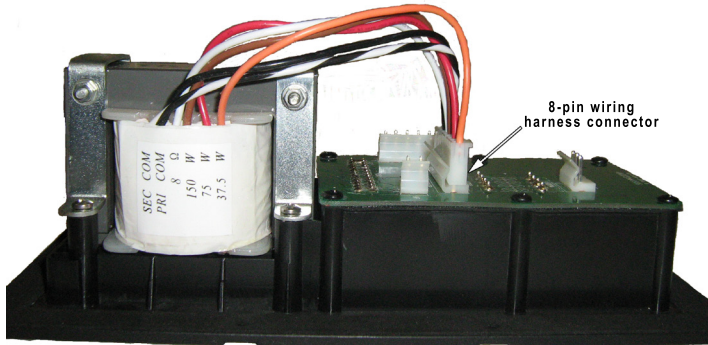


5. Secure the transformer mounting ears to the four (4) input panel bosses with the four (4) #10 screws provided.
Carefully tighten the screws evenly in an X-cross pattern to avoid warping the plastic input panel.



6. Unplug the 8-position jumper connector located at right angle to the 7-pin crossover header.

7. Plug in the 8-position wiring harness connector from the transformer to the 8-pin header in place of the jumper.
Notice the direction of the connector.



8. Reconnect the 7-position connector from the crossover to the 7-pin header.
9. Reinstall the input panel in the same orientation it was in before removal.
Do not install backwards.
10. Apply the new label (supplied) over the input connectors.

Notice!



This product ships with two (2) input panel labels:

- One (1) label is for standard use.
- One (1) label is for EN54-24 Voice Alarm systems.

Apply the *TK-150 EN54 Rated* label when TK-150 is used in an EN54-24 system.

11. Confirm the switch card is set for *FULL RANGE PASSIVE* operation.



Notice!

Bi-Amp operation is not possible with a TK-150 installed.

12. Connect the (-) input line to the COM input terminal and the (+) input line to the terminal corresponding to the desired wattage in either the 70.7 V or 100 V column.

Notice!



Each group of four (4) terminals is electrically connected in parallel to the group of four (4) terminals directly across from it. The wattages charted in these two (2) columns represent the wattage available from each of the three (3) transformer taps at the designated voltage.

Caution!



This transformer is intended to affect only the loudspeaker in which it is installed. When daisy chaining additional systems, connect the wires to the next system only to those terminals directly opposite the input wires. Improper connection may result in damage to the transformer, successive loudspeakers, the driving amplifier or any combination thereof.



Notice!

Tighten all unused connector screws to prevent rattles.

Ordering Information

TK-150

TK-150, KIT, accessory, 70V transformer, EVF, EVH

Order number: TK-150