

# R70VT Line Matching Transformer User's Installation Guide

## 70/100 Volt to 8 Ohm Line Matching Transformer

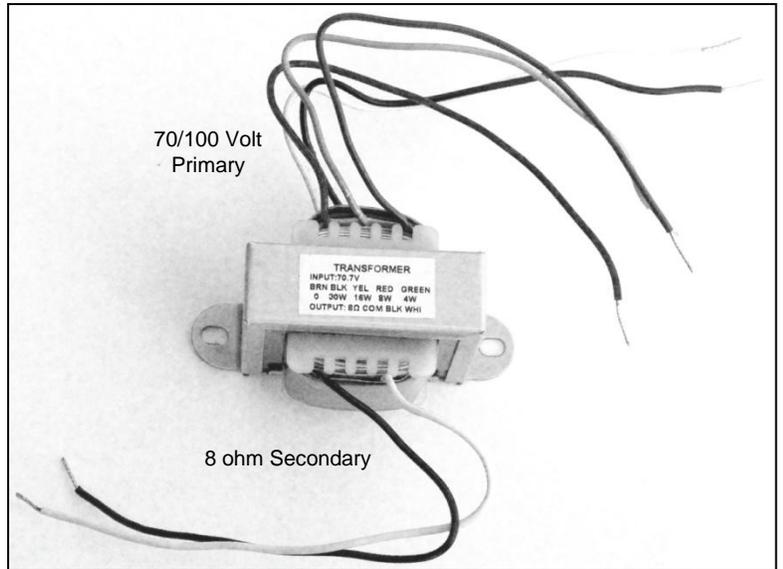
The R70VT adapts any Current Audio 8 Ohm speaker for use with multi-speaker 70Volt commercial distributed public address and sound systems. It can be used on 100Volt systems but the wattage taps will be different. ( see the Chart below). It features a high power, low insertion loss, wide frequency response quality line matching design.

The transformer has multiple primary taps of 30-16-8-4 watts at 70 Volts with the secondary at 8 Ohms. With 100 Volts the wire taps will provide 30-15-7.5 Watts. **DO NOT USE** the Black primary wire with 100 Volts. Damage to transformer will occur.

The transformer is constructed of audio caliber laminations. It has a very low insertion loss and has a frequency response of 40-16kHz.

The unit has two mounting holes for easy attachment to locations on the speaker or any hard surface.

With our limited 5 year warranty you are assured years of superior trouble free operation.



R70VT

Transformer Wire Color Coding			
Voltage Primary Side			
	70 Volt Input		100 Volt Input
Brown	Common		Common
Black	30 Watt		<b>DO NOT USE</b>
Yellow	16 Watt		30 Watt
Red	8 Watt		15 Watt
Green	4 Watt		7.5 Watt
8 ohm Secondary Side			
Black	Common (-)		To Speaker
White	Plus (+)		To Speaker

Part Number	92070	Model Number	R70VT
Manual URL	www.currentaudio.com		
Accessories	Any 8 Ohm Speaker; TB6, TB8		



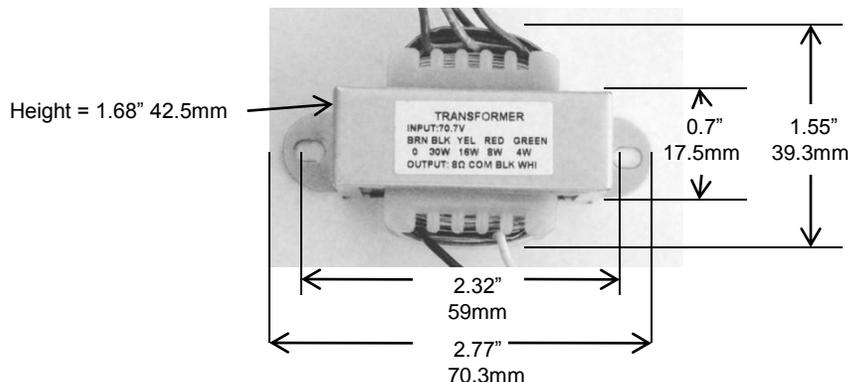
Mounted



R70VT



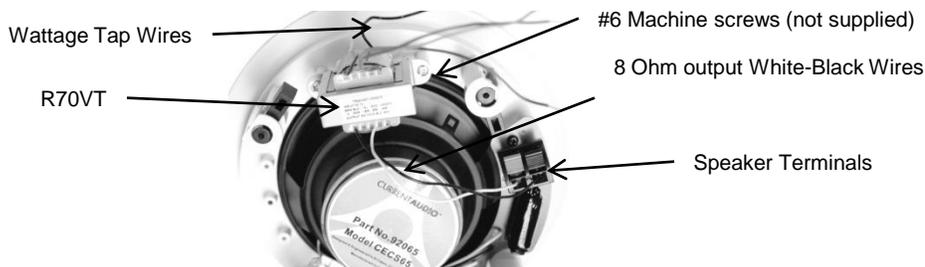
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## Mounting Instructions

The R70VT Line Matching Transformer has two (2) mounting holes. These holes match the mounting standoffs on the Current Audio CECS65, CECS80 and all CS65 series speakers and can be directly screwed in using #6 sheet metal screws. (Not supplied).

- After securing the transformer to a suitable mounting surface, connect the White wire to the RED (+) terminal on the speaker and the Black wire to the Black (-) terminal on the speaker.
- Select the desired tap on the transformer and connect the brown (-) and the (+) tap to the 70/100 volt line. Note: If you are not sure which tap to use start with the 8 watt (red) tap wire. Then go up or down to establish desired volume level for that area. Crimp connectors are recommended.
- Insulate all remaining taps to prevent shorts. Clip the stripped ends and separately wrap with electrical tape or crimp connectors.



Typical Transformer Mount, CECS65 Shown

## Considerations

- How do I know what size 70 volt amplifier to use. Rule of thumb = Add all speakers with the wattage tap then divide by .75 for a safety factor.  
Example: Suppose you have 10 speakers with the wattage taps set at 16. The total wattage would be 160 watts. Divide  $160 / .75 = 213$ . You would then select an amplifier with a rating higher than 213 watts.
- Most commercial applications use 8 watt or 4 watt taps. Use 30 watt tap for Subwoofers.
- Need to control the volume for separate areas? Take the 8 Ohm output (White-Black wires) of the transformer and run it to a standard volume control, like the ZL45R, then back up to the speaker. This volume control has the capacity to control two zones or two speakers.

### Limited 5 Year Warranty

Current Audio, LLC speakers and accessories are warranted to be free from defects in materials and or workmanship to the original retail purchaser for a period of 5 years provided the equipment was purchased and installed from a Current Audio, LLC Authorized Dealer.

In the event of defective materials and or workmanship, Current Audio, LLC will, without charge, repair or replace, at its option, the defective product. In order to make claim under this Warranty and to obtain performance of any obligation under warranty, please contact Current Audio. Instructions will be given on how to return the defective product to Current Audio. Returned products must be shipped prepaid. Proof of purchase must be provided with the product.

The Warranty does not apply to damage not resulting from defective materials and or workmanship while in the possession of the original consumer or due to unreasonable use by the original consumer, which includes but not limited to improper installation, negligence, unauthorized repair or modification, aesthetic deterioration from the environment. Products purchased by unauthorized sources will void the warranty and not be honored.

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