

# Manual Addendum for Transformer Equipped Models

## Product Description

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**Control 126WT** is a two-way loudspeaker system featuring a 6.5-inch, polymer coated aluminum woofer. The high frequency device is a 1-inch titanium dome tweeter. The tweeter housing is swivel-mounted and interfaces with a low-diffraction waveguide for optimal performance. The loudspeaker system is equipped with 70.7/100V multi-tap transformer, for use with distributed line systems. The highest rated tap is rated for 30 Watts. Additional tap settings are 15W, and 7.5W (plus 3.7W for 70V systems only.)

**Control 128WT** is a two-way loudspeaker system featuring a 8-inch, polymer coated aluminum woofer. The high frequency device is a 1-inch titanium dome tweeter. The tweeter housing is swivel-mounted and interfaces with a low-diffraction waveguide for optimal performance. The loudspeaker system is equipped with 70.7/100V multi-tap transformer, for use with distributed line systems. The highest rated tap is rated for 50 Watts. Additional tap settings are 25W, and 12W (plus 6W for 70V systems only.)

## Installation Considerations

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### Wiring and Tap Selection

When Wiring the Control 126WT and Control 128WT, insert signal wires into the barrier strip mounted on the transformer plate. Connect the negative (-) input to the terminal marked "Com" for Common Ground. Connect the positive (+) input to the terminal corresponding to the desired tap setting. Be sure to screw down the terminal screws as snugly as possible on the wire leads to insure a reliable connection.

### Amplifier Requirements

All 70/100V distributed line loudspeakers must be driven from a 70/100V amplifier. Be sure to allow enough amplifier power to accommodate the number of speakers and the taps selected. To determine amplifier power requirements, sum all of the taps connected on that amplifier line. This will give the total system power draw. It is then advisable to add ten to twenty percent for headroom. This gives the appropriate amplifier rating (in Watts) for the system.

### High Pass Filtering

When operating a distributed line system, it is recommended that a High Pass Filter be used to prevent unwanted transformer saturation. Many 70/100V amplifiers on the market today are equipped with a built-in High Pass Filter for this reason. These built-in filters are often set around 70Hz. If a High Pass Filter does not exist on the amplifier being used, an external filter is recommended. This filter can be set somewhere between 30Hz and 70Hz. The higher the tap setting being used, the higher the filter frequency should be set.