

MT-70V

70V Internal/External Transformer Installation Instructions

The MT-70V is a high quality, weather-resistant transformer for supplying commercial grade interior or exterior 25V, 70V and 100V audio signal distribution for public address (PA) and background audio use. It offers a simple alternative to poorly contained transformers on speakers used for 70V audio signal distribution.

The self contained MT-70V offers weatherproof, dust proof 70V audio signal supply to nearly any standard 8 Ohm speaker. The MT-70V also offers "on the fly" switching between these 70V taps: 2.5W, 5W, 10W, 15W and 20W for convenience.

The 70V transformers shown in Figure 1 are set or "tapped" to 2.5W, 5W, 10W, 15W or 20W as necessary by the specific installation performance criteria.

The MT-70V is capable of supplying 25V, 70V or 100V for installations worldwide. A basic chart showing equivalent output is shown below:

Voltage:	100V	70V	25V
Tap:	5W	10W	20W

70V distributed audio systems generally require less cable gauge than standard 8 Ohm systems. Please refer to the "General Cable Recommendations Chart".

Please carefully select the "INPUT" side of the MT-70V transformer and remove the screw cap. Insert your cable from the amplifier being careful not to lose or misplace the waterproof "o ring" or washer seal. Strip about 1/2-inch of insulation from the positive and negative common wires and connect accordingly. Re-tighten the screw/seal over the cable to complete that connection, see Figures 2, 3 and 4.

Carefully repeat connection on the "OUTPUT" side to connect the speaker, see Figure 3.

The MT-70V is factory pre-set to 2.5 Watts to avoid avoid potential problems by those who are less familiar with high voltage distributed audio systems.

You should carefully check this setting and then choose your preferred wattage tap 2.5/5/10/15/20W tap based upon the requirements of the installation. If working with an 8 Ohm system, be careful that the final system impedance at the amplifier is not below the minimum impedance rating of the amplifier.

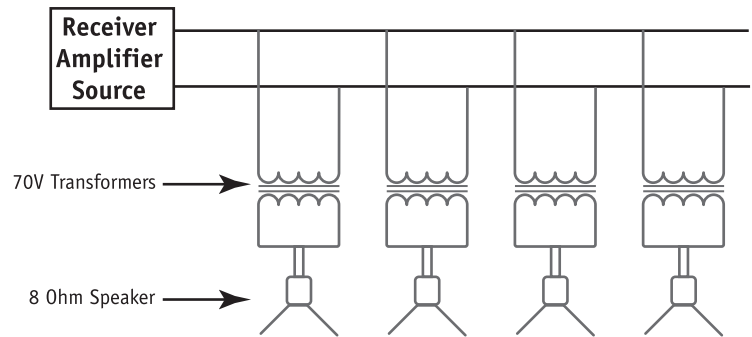


Figure 1.

GENERAL CABLE RECOMMENDATIONS

Cable Type:	5W	10W	15W	20W
14AWG (3/50")	7700 Ft	4100 Ft	3250 Ft	2350 Ft
16AWG (1/20")	5000 Ft	3500 Ft	2300 Ft	1750 Ft
18AWG (1/25")	4500 Ft	2250 Ft	1500 Ft	1125 Ft

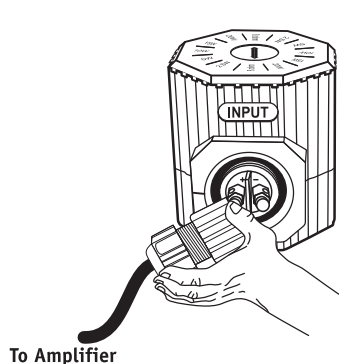


Figure 2.

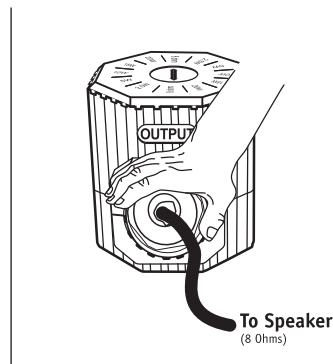


Figure 3.

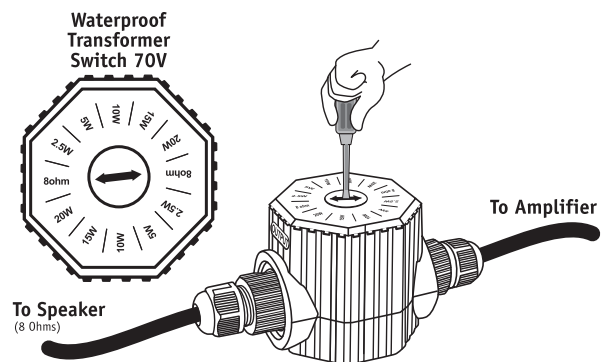


Figure 4.