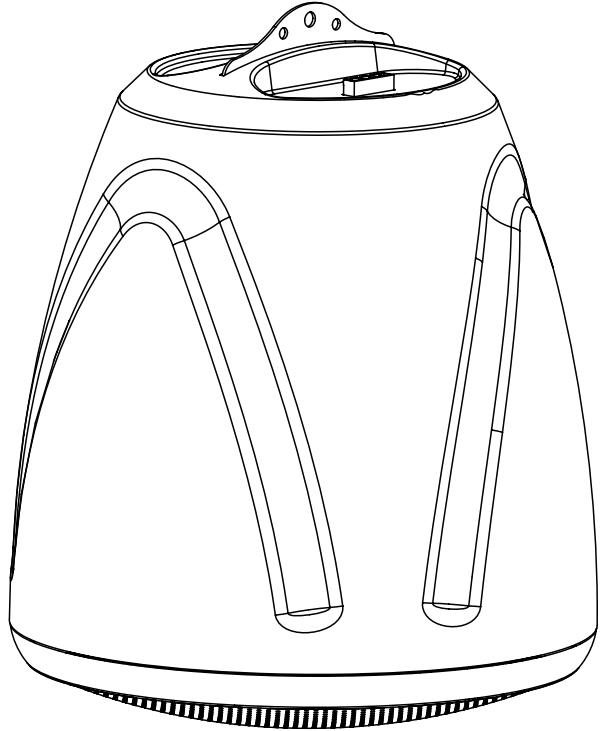


INSTALLATION INSTRUCTIONS



**SPS80TW**  
**User Manual**



**PENDANT 2-WAY  
SPEAKER SYSTEM**

## INTRODUCTION

Thank you for buying our suspended ceiling speaker. Please read and have a thorough understanding of the entire manual before installation and use. Keep the manual for maintenance.

**IMPORTANT:** CIE-Group Ltd has made every effort to provide accurate and detailed instruction for this product's assembly and installation. Should you have any doubts consult a qualified professional installer. CIE-Group Ltd recognizes no liability for any difficulty or problem derived from the interpretation of these instructions. These speakers and all their parts and accessories must only be used for the purpose they have been constructed.

CIE-Group Ltd, its commercial distributors and retailers are not, directly or indirectly, responsible for any damage to persons and/or properties derived from the use of this product in an unsafe or different way for which it has been designed and constructed. Several parts of this product are small pieces of hardware therefore extreme care should be taken to keep them from children.

### Read these instructions carefully before using the product

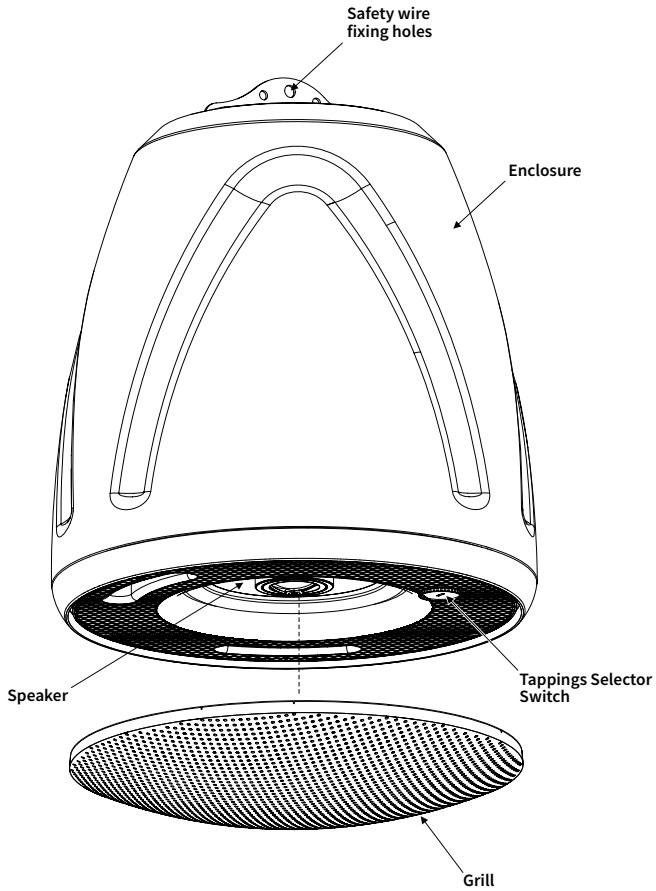
1. Please ensure that the chosen structure is checked and is suitable to suspend this product. This product must be firmly attached and it is recommended to fix an additional safety wire. The installer will be fully responsible for the safe installation of this product.
2. Do not install the speakers in fine wood or soft wall material because the screws might come loose, which may result in product falling and causing personal injury.
3. Do not use nails, adhesives or other unauthorized fixing devices. Long-term use and vibrations may cause it to fall easily.
4. Do not place the speakers on a turntable or movable support.
5. Do not touch or bump the woofer and tweeter. If these are damaged, the sound will be distorted.
6. Do not listen to sound at a very high level when you are changing the input source (for example, to tune FM/CD) Installation or removal of cables should make sure that the power amp/amplifier device is turned off.
7. Do not attempt to clean the speakers with chemical solvents as this may damage the paint surface. Clean with a dry cloth.

### Connection

Use wire on the back of the speaker in the output tab of the amplifier. In order to ensure correct polarity please check that the RED connection is connected to the positive feed from the amplifier and the BLACK connection is connected to the negative (control) feed from the amplifier. If the polarity is reversed, the sound will be unnatural and bass will not be present.

## UNDERPOWERING VS OVERPOWERING

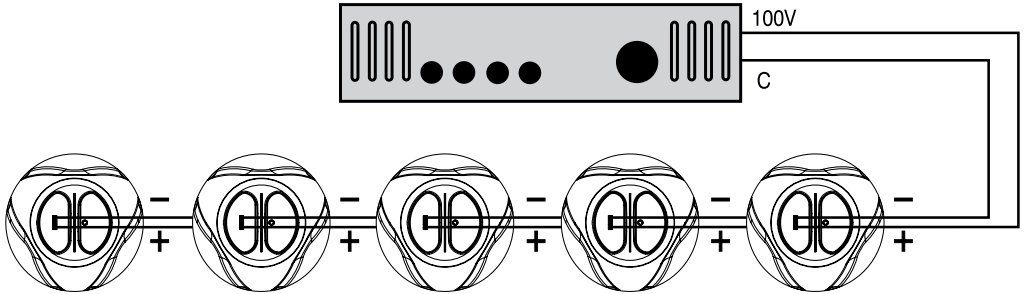
- Most speaker damage is caused by amplifiers with too little power (wattage).
- An overdriven amplifier clips the waveforms and sends distortion to the speakers.
- Clipping is usually audible; it may vary from a harsh sound to a fuzzy or unclear sound.
- If you hear this condition at loud volume levels, turn down the volume until the distortion is no longer present.
- Damage caused by operating the speakers at distorted volume levels is not covered by the warranty.



## TECHNICAL SPECIFICATIONS

Model	SPS80TW
Frequency Resp (-10dB)(Hz)	45-20K
Sensitivity (1W/1M)(dB)	90
Impedance (ohm )	8
RMS Power ( Watts)	80
Peak Power ( Watts)	160
Transformer Tappings	100V: 32-16-8-4-2-1W & 8ohms
Product Dimensions (mm)	Ø308 x H365

## EXAMPLE OF 100V SYSTEM CONFIGURATION

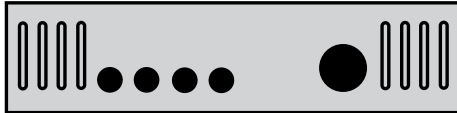


**5 SPEAKERS CONNECTED IN PARALLEL USING 16W TAPS**

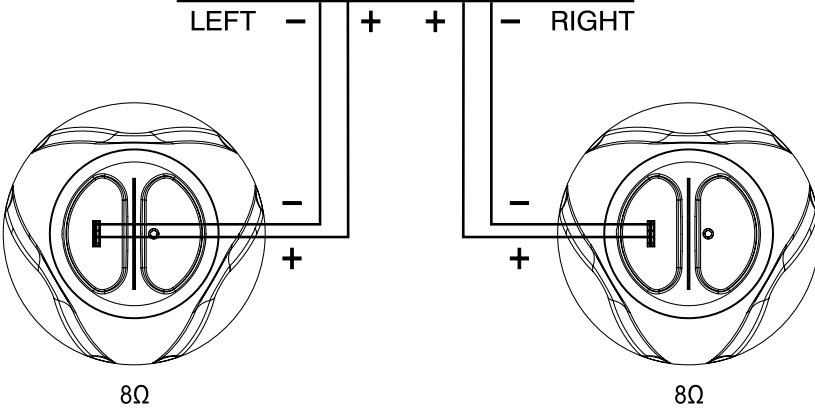
NOTE: The total number of speakers multiplied by the tap value cannot exceed the output power (in watts) of the 100V amplifier. The above example shows 5 total speakers. Using the 16W taps, you will need an amplifier with at least  $(5) \times (16) = 80W$ . A good rule of thumb is to select an amplifier with 20% greater power; in this case, an amplifier that delivers about 100W.

# EXAMPLE OF LOW IMPEDANCE SYSTEM CONFIGURATION

## 2 CHANNEL AMPLIFIER WITH 8Ω OUTPUT



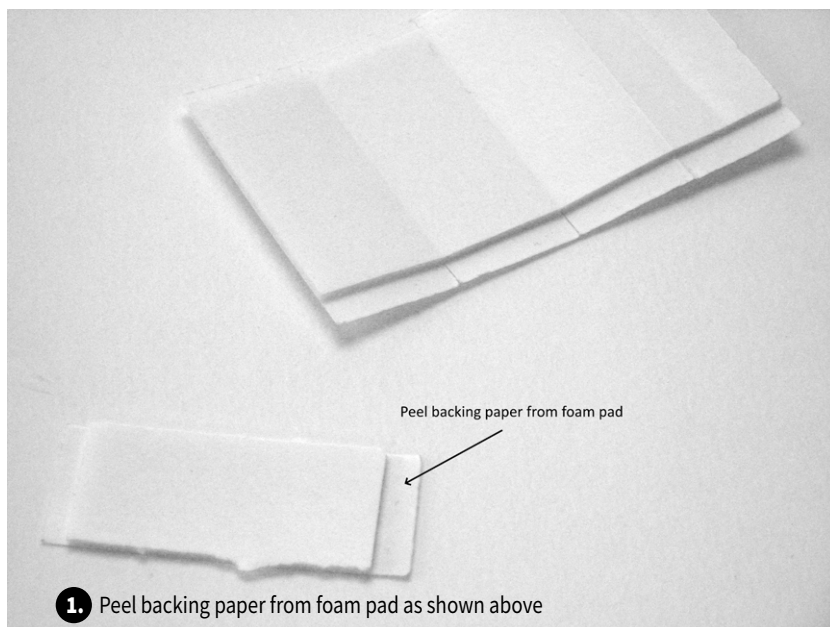
Observe correct  
Polarity for maximum  
Bass performance

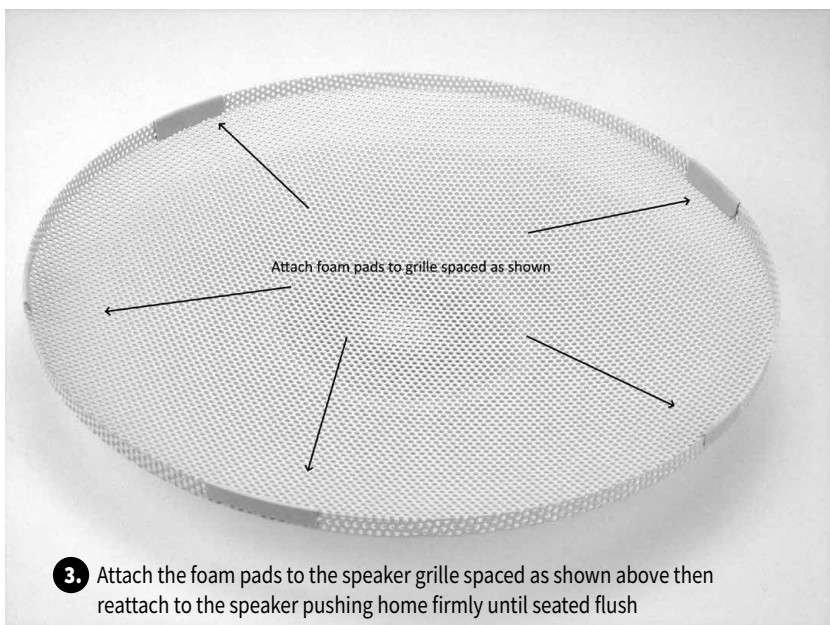
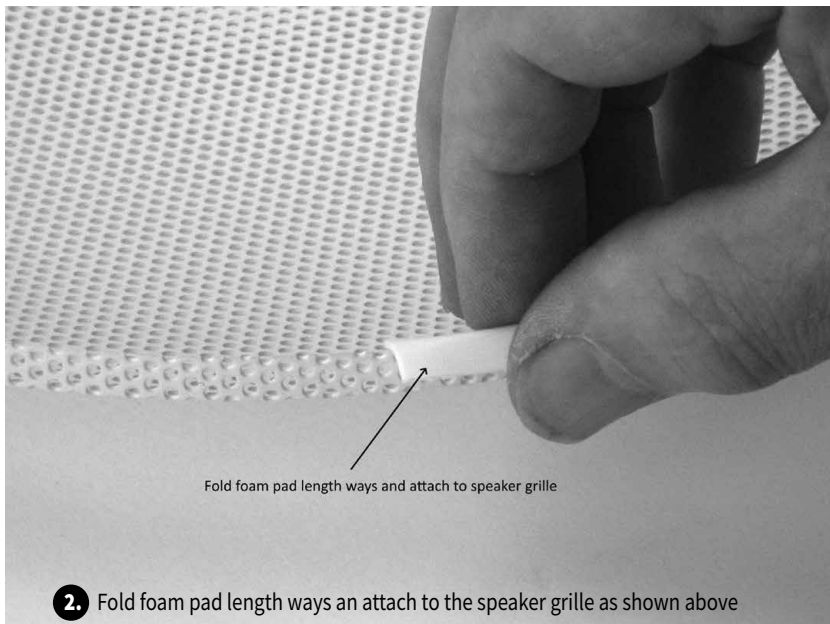


2 SPEAKERS PER CHANNEL CONNECTED IN PARALLEL

## FITTING LOUDSPEAKER GRILLE ONCE POWER TAPPINGS HAVE BEEN SET

Following installation and setting of power tappings, please follow these instructions for fitting the speaker grille for the SPS80TW

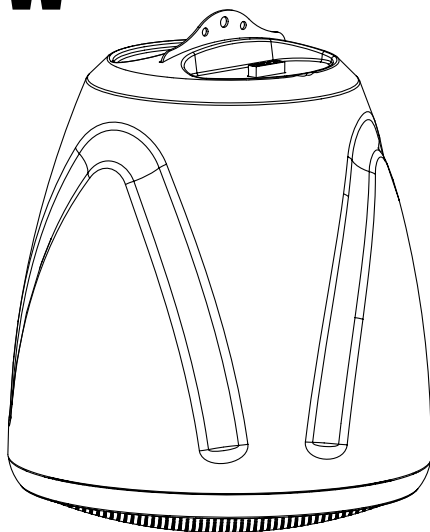




# INSTALLATION INSTRUCTIONS



## **SPS80TW** User Manual



## **PENDANT 2-WAY SPEAKER SYSTEM**



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Supply  
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