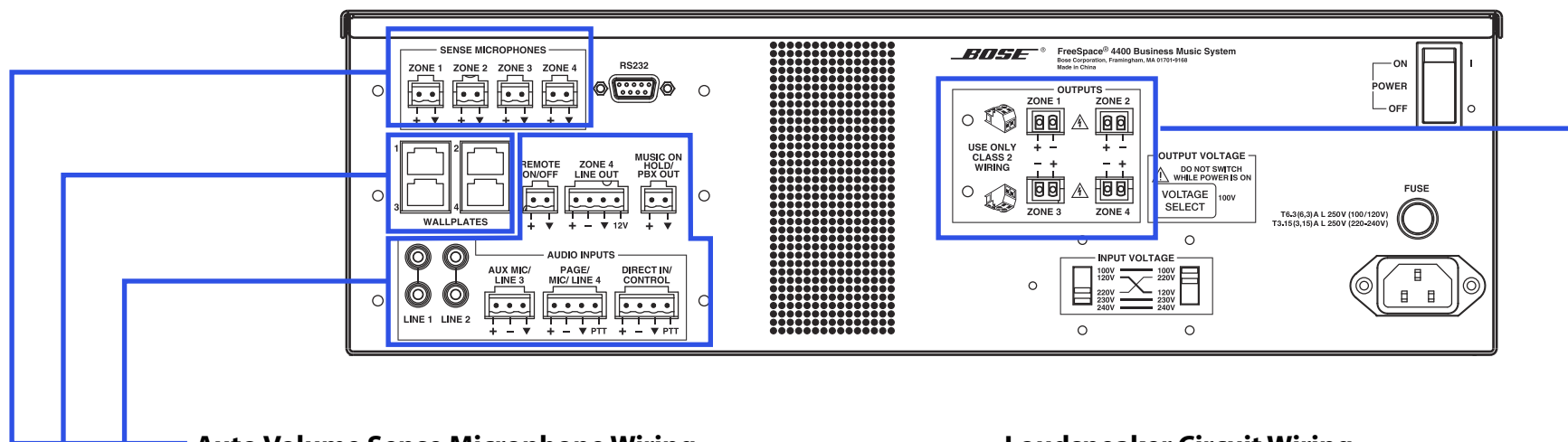


FreeSpace® 4400 Business Music System Installation Checklist

When installing a FreeSpace 4400 system a few simple installation tests will help to identify any problems which will cause the unit to enter a protect mode. For a successful installation it is recommended that the following tests are performed prior to connecting any equipment to the field wiring.

General Site Conditions

- Adequate space behind unit, at least 4 inches, (10 centimeters), to accommodate cabling and bends in cable.
- Ample space to the sides and rear of the unit to allow for proper air flow.
- Note the make and model of any non-Bose loudspeakers so that the proper high pass filter can be used.
- Check the wiring of any Panaray® 302™A loudspeakers. These units ship configured for 70V, if you are installing a 100V system you should change the connection at the loudspeaker to the 100V primary.



Auto Volume Sense Microphone Wiring

- Continuity between microphone and FreeSpace 4400.
- Shorted wiring.
- Short to ground due to skinned cable jacket.

User Interface Wiring

- Continuity between user interfaces and FreeSpace 4400.
- Shorted wiring.
- Short to ground due to skinned cable jacket.

Audio Input/Output Wiring

- Continuity between audio input and FreeSpace 4400.
- Shorted wiring.
- Short to ground due to skinned cable jacket.

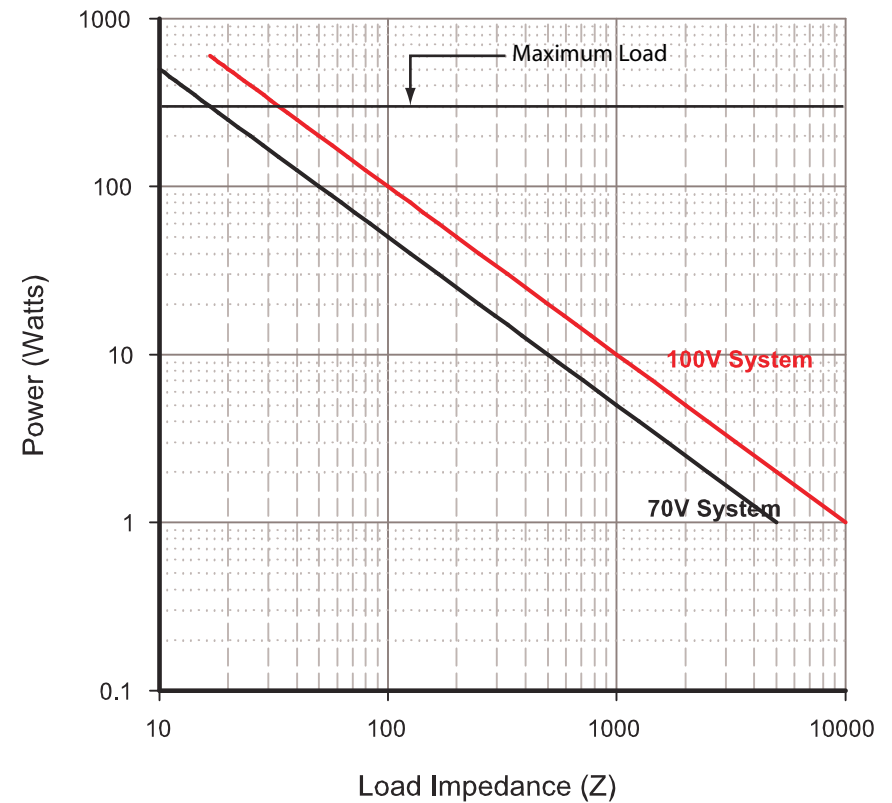
Loudspeaker Circuit Wiring

- Total load of each zone.
- Shorted wiring.
- Short to ground due to skinned cable jacket.

FreeSpace 4400 Mic, Line and Control Wiring Tests

	Shorted Wiring Test			Continuity +/-
	+/-	+/- $\frac{1}{2}$	-/ $\frac{1}{2}$	
Line 1		NA	NA	
Line 2		NA	NA	
Mic / Line 3				
Page In				
Direct In				
AV Zone 1				
AV Zone 2				
AV Zone 3				
AV Zone 4				
WP Zone 1				
WP Zone 2				
WP Zone 3				
WP Zone 4				

Load Impedance vs. Power



- 1) Locate the load impedance of loudspeaker line.
- 2) Where the load impedance intersects the system type, 70 or 100V, read the required zone power on the left.

FreeSpace 4400 Loudspeaker Circuit Wiring Tests

	Zone Information			Shorted Wiring Test +/-	Shprt to Ground Test	
	Loudspeaker	Load	Power ¹		+/	-/
Zone 1						
Zone 2						
Zone 3						
Zone 4						

1 - Use the FreeSpace 4400 System Impedance vs. Power chart to determine the power required for each zone. Total system power must not exceed 400 Watts.