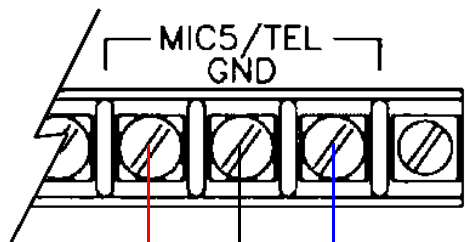


### Bogen GS35-GS60-GS100-GS150-GS250 Amplifier

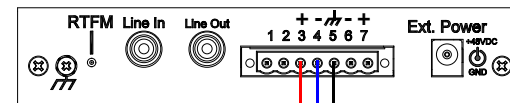


MIC5/TEL



MIC5/TEL switch in the TEL position.

### VoIP Paging Server Connections



Hi +  
Lo -



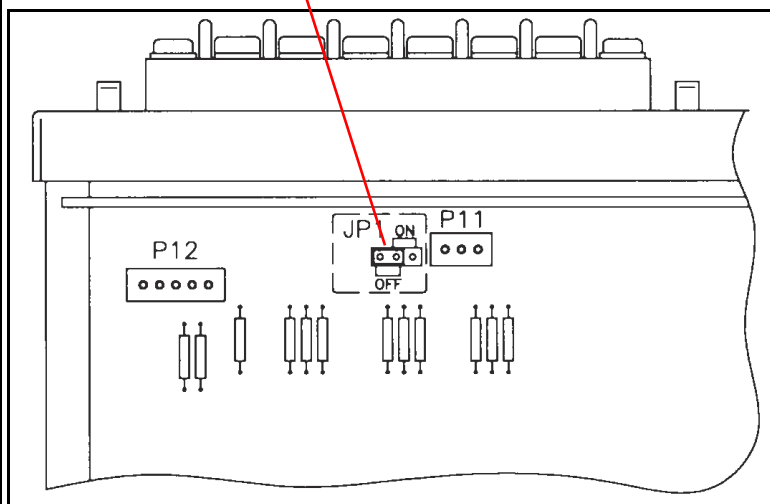
Balanced

Shield/Drain Wire

Keep as short as possible

#### JP1 Phantom Power Jumper:

Check and make sure it is in the OFF position as shown in this diagram.



### Page Port Output Connections

Pin	Description
1	Fault Sense Input (Common).
2	Fault Sense Input (Sense).
3	Positive 600-Ohm Audio Output <sup>a</sup>
4	Negative 600-Ohm Audio Output <sup>a</sup>
5	Audio Ground Reference.
6	Relay Contact - Common <sup>b</sup>
7	Relay Contact - Normally Open <sup>b</sup>

#### Notes

2 conductor, shielded speaker wire is recommended.



#### Caution

**Equipment Hazard:** All equipment should be powered down prior to making wiring connections and changing switch positions.

a. The 600-Ohm audio output of the page port is also suited for interfaces with lower input impedances.

b. 1 Amp at 30 VDC for continuous loads.

## Telephone Paging Controls & Settings

The MIC 5/TEL volume control on the front panel controls the volume of the telephone paging input when the control is set to the TEL mode (See page 9 for information on setting the TEL input mode).

The TEL input mode uses voice-activated muting for the AUX inputs and automatic level control for providing constant paging level. To optimize TEL input performance, both the ALC control and the VOX threshold may need to be adjusted.

### ALC (Rear Panel; #17)

The TEL input features an automatic level control (ALC) which compensates for different voice levels and speaking styles of the individuals using the system. The amplifier is shipped with this control in the OFF (max. counterclockwise) position.



#### To adjust the ALC:

1. Rotate the MIC 5/TEL and MASTER controls to the highest level likely to be used.
2. Speak softly and distinctly into the telephone mouthpiece while adjusting the MIC 5/TEL volume control to the desired output level.
3. Speak in a loud voice directly into the telephone mouthpiece while rotating the ALC control clockwise to the point where the output of the amplifier is reduced to the same level as that obtained in Step 2.
4. The MIC 5/TEL and MASTER controls can be used to vary the overall volume without upsetting the ALC adjustment.

### VOX (Rear Panel; #18)

The telephone page input features voice-activated AUX muting. This feature always mutes AUX 2 and only mutes AUX 1 when the AUX1/MIC 6 switch is set in that position.

The VOX control should be set so that only the desired signal is above the threshold level, while unwanted noise is below it.



#### To adjust the sensitivity of the VOX circuit:

1. Rotate the VOX control fully clockwise. While making a public address announcement and talking at a low level, the sound should not be choppy or missing parts of words. If it is choppy or intelligibility is poor, rotate control counterclockwise to the point where the sound is clear and crisp (but not to the maximum counterclockwise position).
2. If the background music shuts down when no page is in progress, rotate the control clockwise until the music will not shut down when no page is in progress.

### Variable Mute (Rear Panel; #4)

The VAR MUTE control mutes the AUX input(s) only during telephone pages.

The control allows the user to select from 4 levels of muting: 1 = -60 dB, 2 = -21 dB, 3 = -10 dB, 4 = 0 dB.

