



#### Paging Adapter Amplifier Integration Guide

Algo Support, 604-454-3792 support@algosolutions.com www.algosolutions.com



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## Paging Adapter Hardware Interface



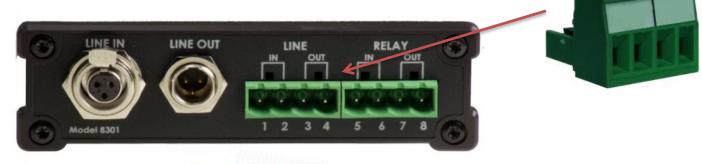
#### 8301 Paging Adapter & Scheduler



- SIP (50 Page ext., 10 Emergency Alert ext. & 10 Ring ext.)
- Multicast Send & Receive
- Scheduler for Automated Tones & Announcements
- > 1GB Memory

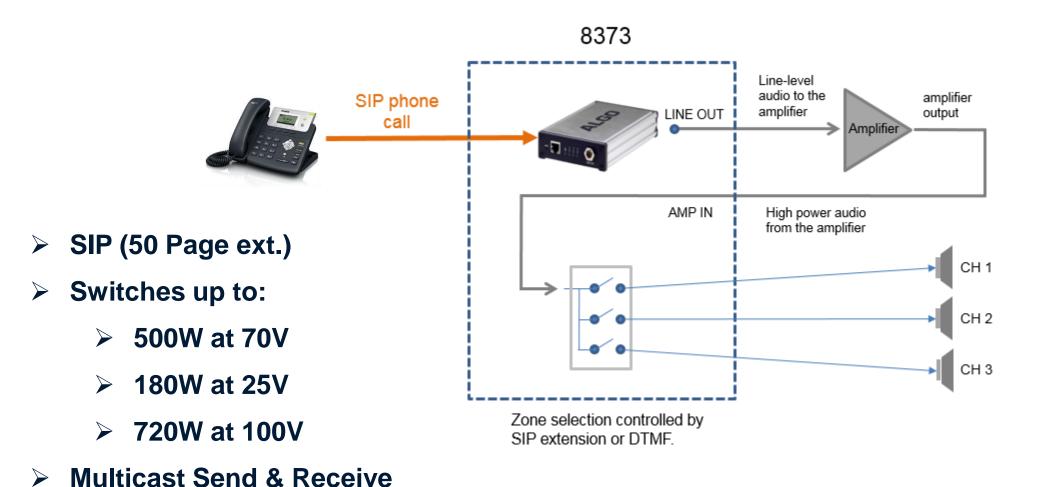


Front View





#### 8373 Zone Paging Adapter





#### 8373 Zone Paging Adapter



Front View



Rear View



## Hybrid IP & Analog Infrastructure Integration



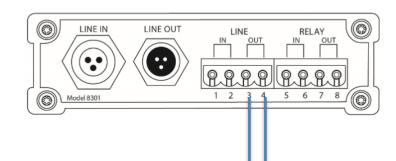


# Paging Amplifier Wiring Diagrams



#### 8301 Installation Example with Adastra RM60/120/240S





Recommended: use an aux cable and strip the leads on one end. Connect the positive and negative (usually red and black) terminals to the Line Out.

To connect the other end to the amplifier input Mic/Line 2, use a 3.5 mm to 6.3 mm adapter.





### 8373 Installation Example with Adastra RM60/120/240S



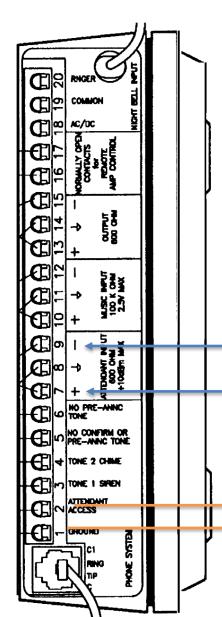
Recommended: use an aux cable and strip the leads on one end. Connect the positive and negative (usually red and black) terminals to the Line Out.

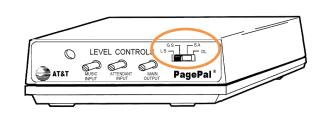
To connect the other end to the amplifier input Mic/Line 2, use a 3.5 mm to 6.3 mm adapter.





## 8301 Installation Example with AT&T/Lucent PagePal

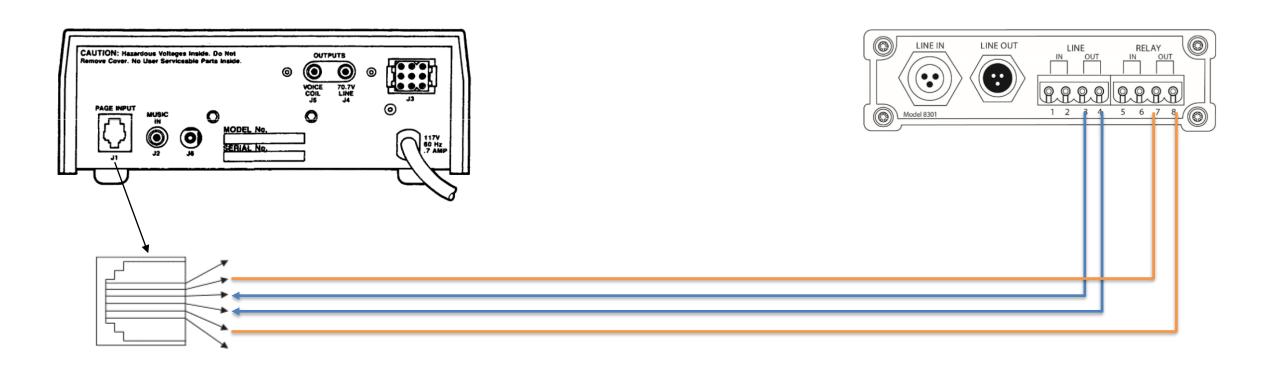




Set the PagePal to DL (Dry Loop) mode using the switch in the front

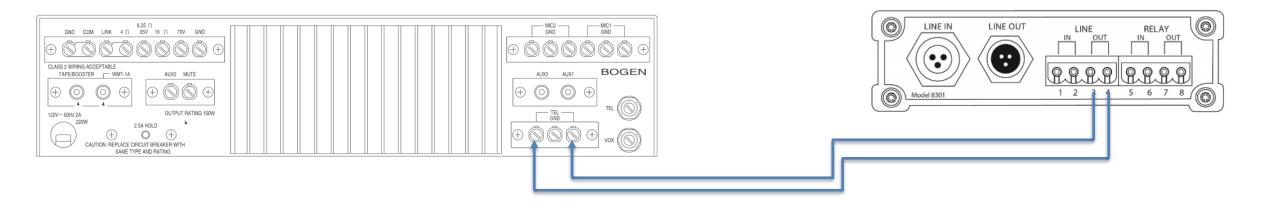


## 8301 Installation Example with AT&T PagePac 20 PowerMate



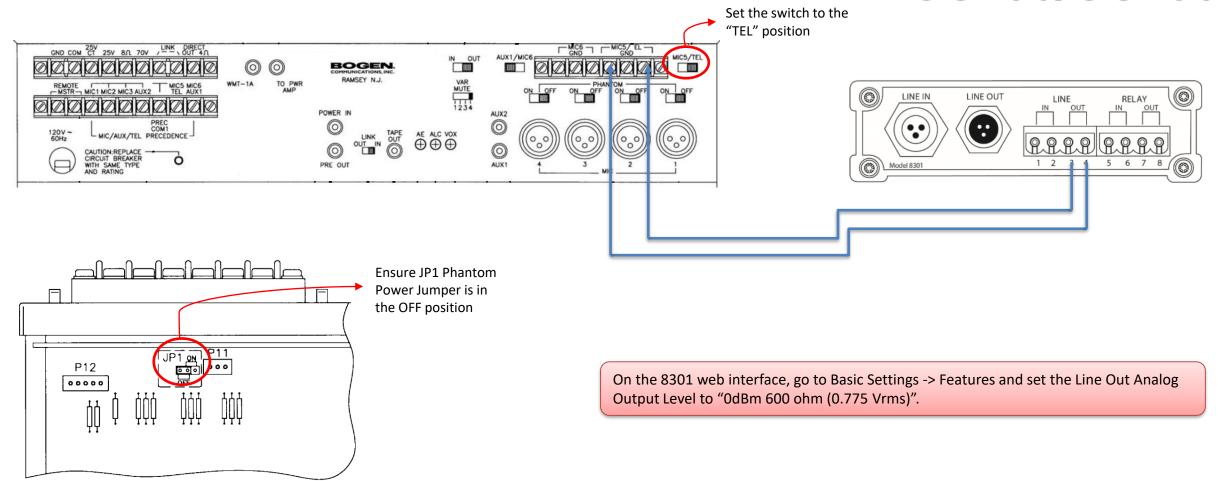


## 8301 Installation Example with Bogen C35/C60/C100



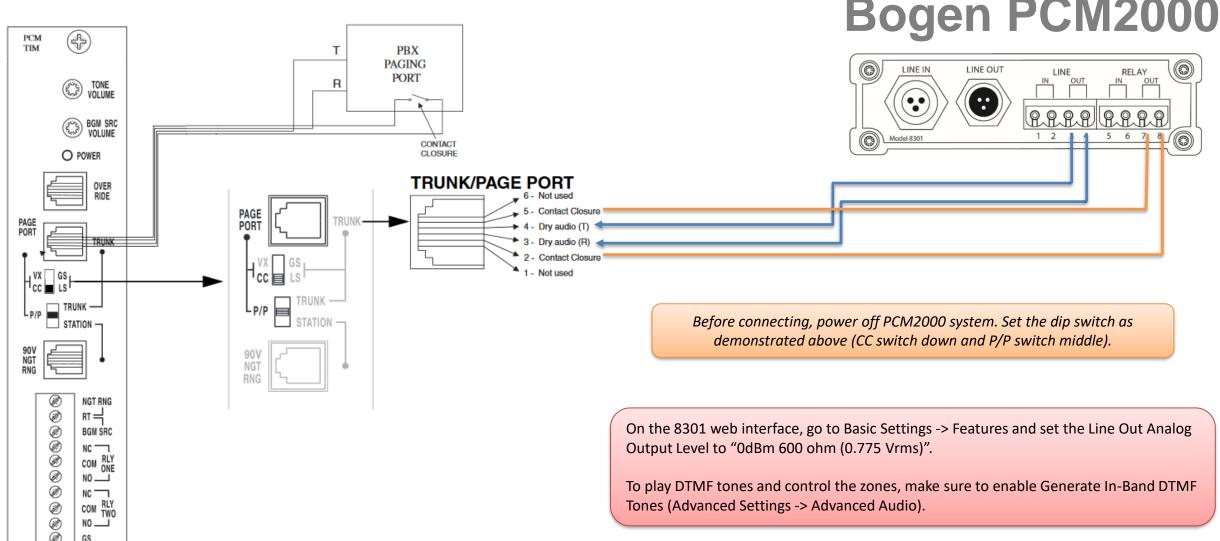


## 8301 Installation Example with Bogen GS35/GS60/GS100 & GS150/GS250





## 8301 Installation Example with Bogen PCM2000



#### 8301 Installation Example with ALGO Bogen TPU-35/60/100/250 The Bogen Amp Dedicated audio output available standard on most telephone systems • Can be connected directly to the input of most amplifiers PAGE PORT • Traditionally, a 600-ohm dry audio signal and a normally open control contact closure • Control contacts, if available, activate during a page and typically control the muting of background music ୭ ବାଦାଦାଦାଦାଦାଦାଦାଦ 000000 Output to Analog Paging Amp (25/70/100V) On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog If Dry Contact Closure is required Output Level to "0dBm 600 ohm (0.775 Vrms)". To mute music far left terminal on Bogen The Algo 8301 Typical application: The Algo 8301 paging adapter and scheduler is used to connect an existing amplifier to UC environment as a SIP extension or a multicast endpoint Line output of the 8301 is connected directly to the dry audio input of the amplifier with input impedance between 600 Ohm and 10 kOhm • For amplifiers connected directly to the dry page port of an existing telephone system, the 8301 will provide a very similar interface providing both dry page audio and dry contact closure to activate the amplifier (if required).

• For amplifiers connected to a FXS port or ATA through a "telephone answering device" the 8301 will

replace the answering device and eliminate the need for a FXS port or ATA.

#### **ALGO** PAGE PORT 000000000000 **Output to Analog** Paging Amp (25/70/100V) CONTACT CLOSURE If Dry Contact Closure is required To mute music far left terminal n Bogen LINE RELAY O CH 1 Output to Analog Speaker zones

8373 Installation Example with Bogen TPU-35/60/100/250

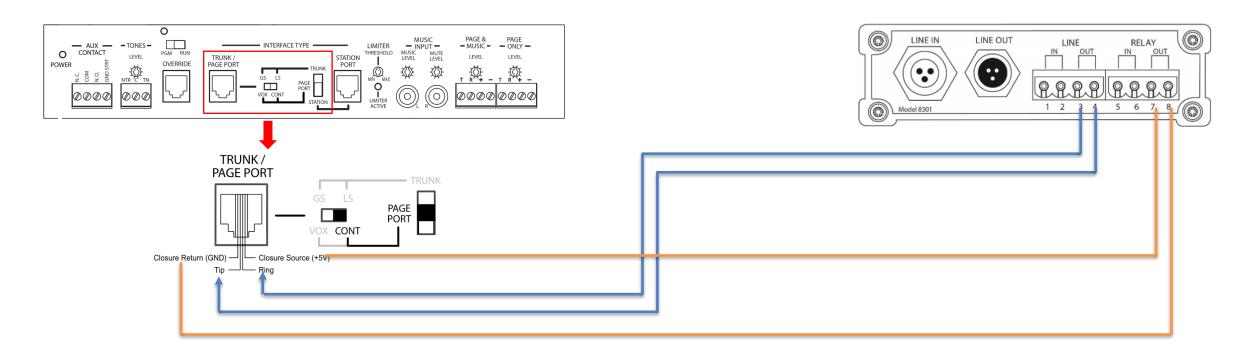
The 8373 is designed to provide a Line Out for audio to a traditional amplifier.

Loop the power of the amplifier into the 8373 to switch up to 500W (for 70V output) into 1-3 audio channels. At 25V the 8373 can switch up to 180W and 720W at 100V.

The speaker runs will be connected to the channel outputs on the 8373.



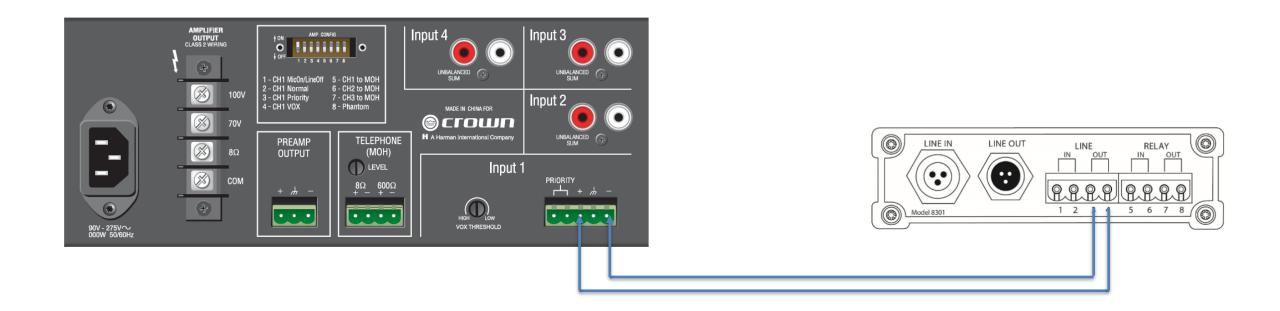
## 8301 Installation Example with Bogen UTI1



Set the horizontal switch to "CONT" and the vertical to "Page Port".



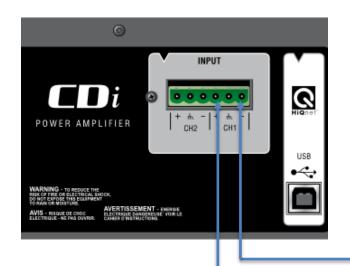
#### 8301 Installation Example with Crown 135MA/160MA

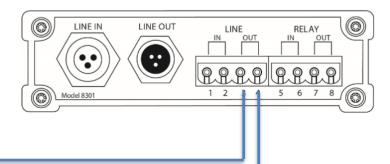


Set switch 1 to "Line" position.



#### 8301 Installation Example with Crown CDI 1000/2000/4000



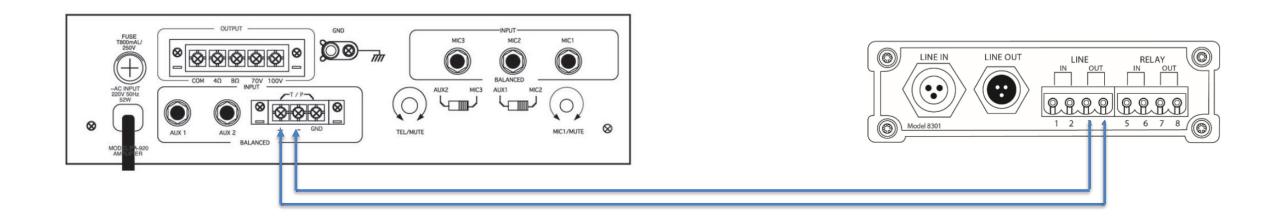


On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to "+4dBu 10k (1.23 Vrms)".

Note: Channel 1 or 2 may be used.

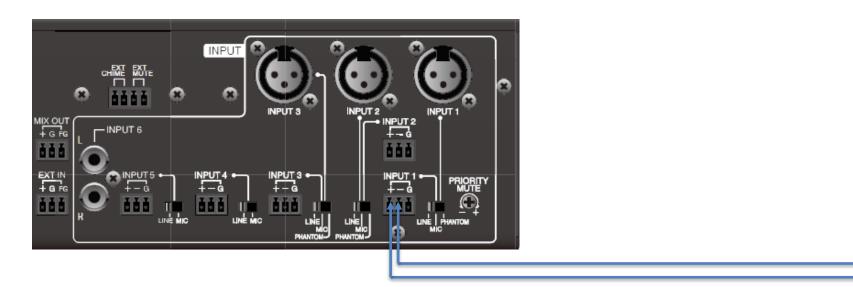


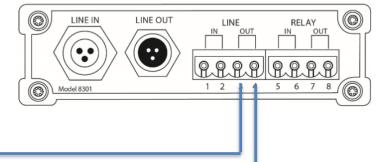
#### 8301 Installation Example with Inter-M PA-920/935





#### 8301 Installation Example with Inter-M PA-60/120/240

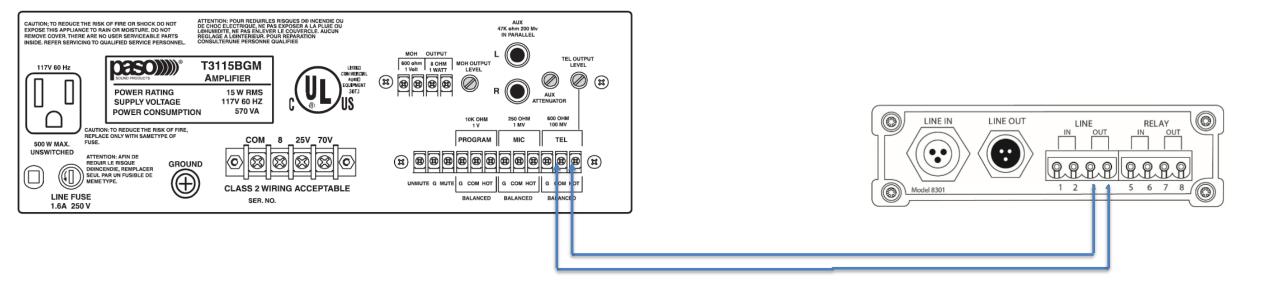




Connect the Line Out pair on the 8301 to the + and – terminals on one of the Inter-M inputs. Move the input selection switch to the "Line" position.

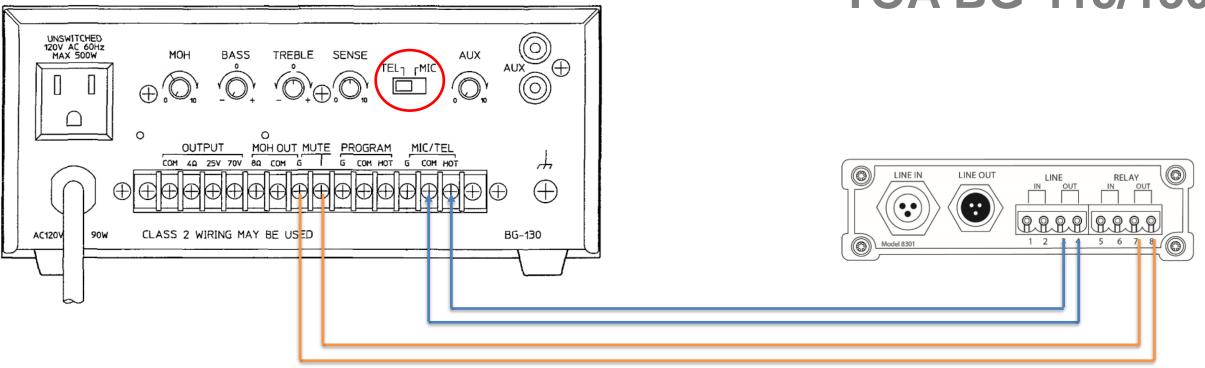


#### 8301 Installation Example with Paso 3000 Series





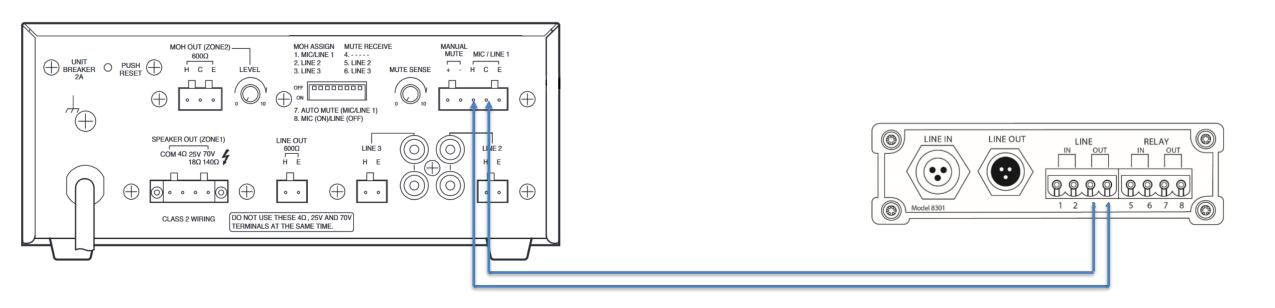
#### 8301 Installation Example with TOA BG-115/130



Set the highlighted switch to the TEL position



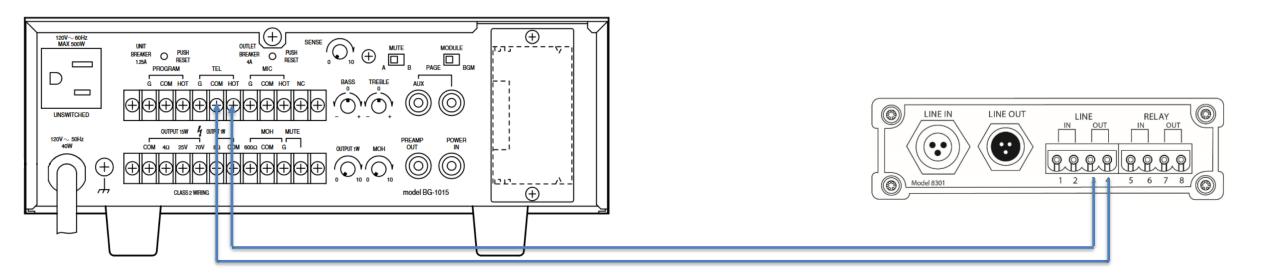
#### 8301 Installation Example with TOA BG-220/235



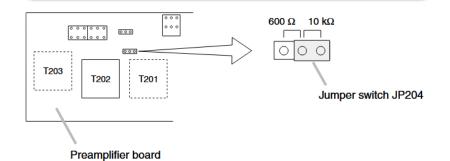
Set DIP switch 8 to the OFF position and be sure to turn off the power before performing this step.



#### 8301 Installation Example with TOA BG-1015/1030/1060/1120

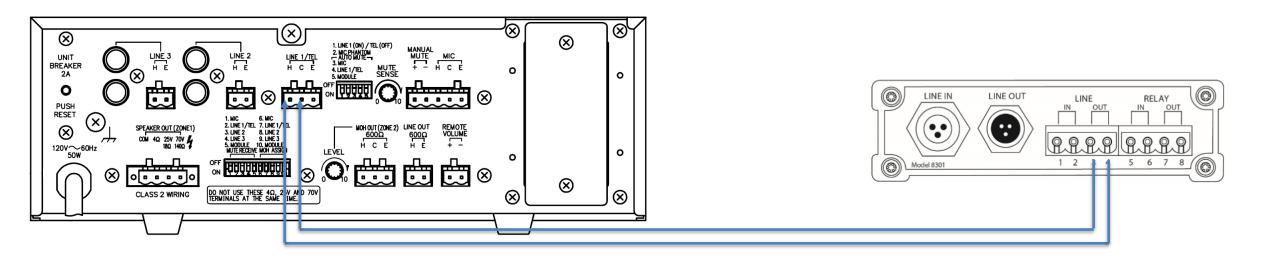


The impedance is set from factory to  $10 \text{ k}\Omega$ . To switch to  $600 \Omega$ , change the position of the unit's internal jumper switch JP204 as per diagram below.





#### 8301 Installation Example with TOA BG-2035/2060/2120



Set the DIP switches as per below:

Function Switches A (upper terminal)

- Switch 2 Off
- Switch 4 On

Function Switches B (lower terminal)

• DIP Switch 2 - On



#### 8301 Installation Example with TOA 500 Series

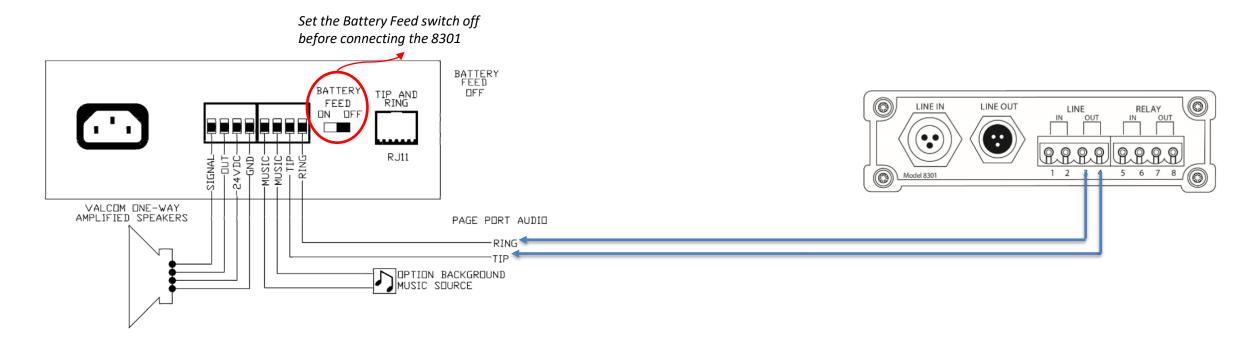


Set the Phantom switch above the input to the off position.

Recommended: Algo 2504 Output XLR-Mini Female to XLR Male

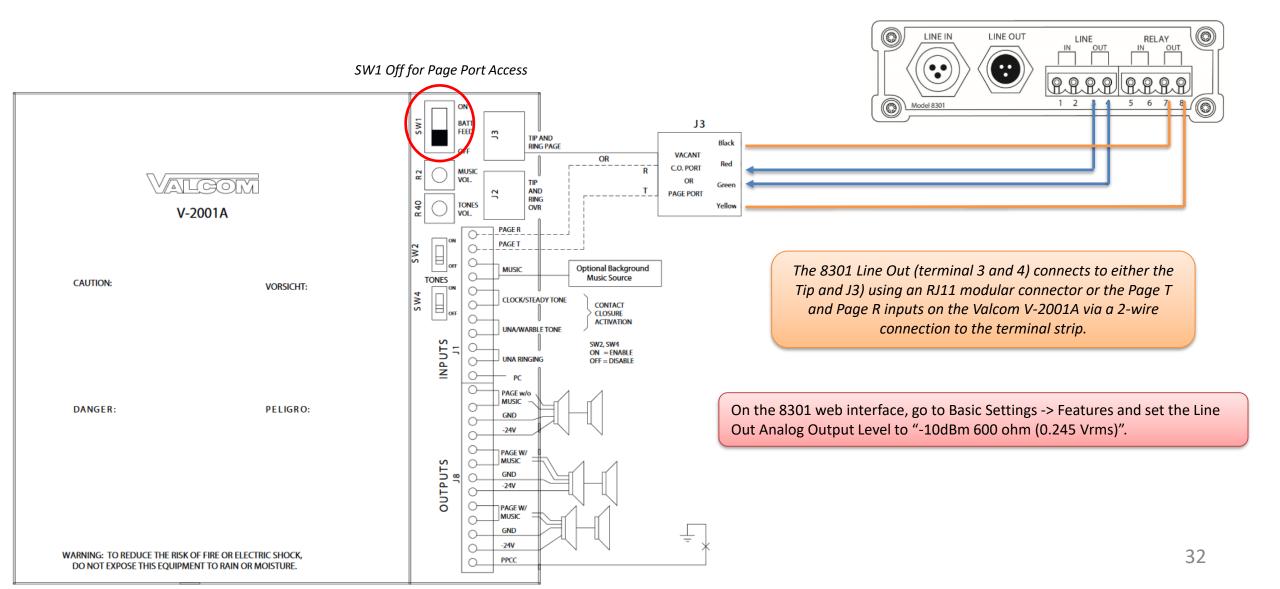


#### 8301 Installation Example with Valcom V-2000a





#### 8301 Installation Example with Valcom V-2001a



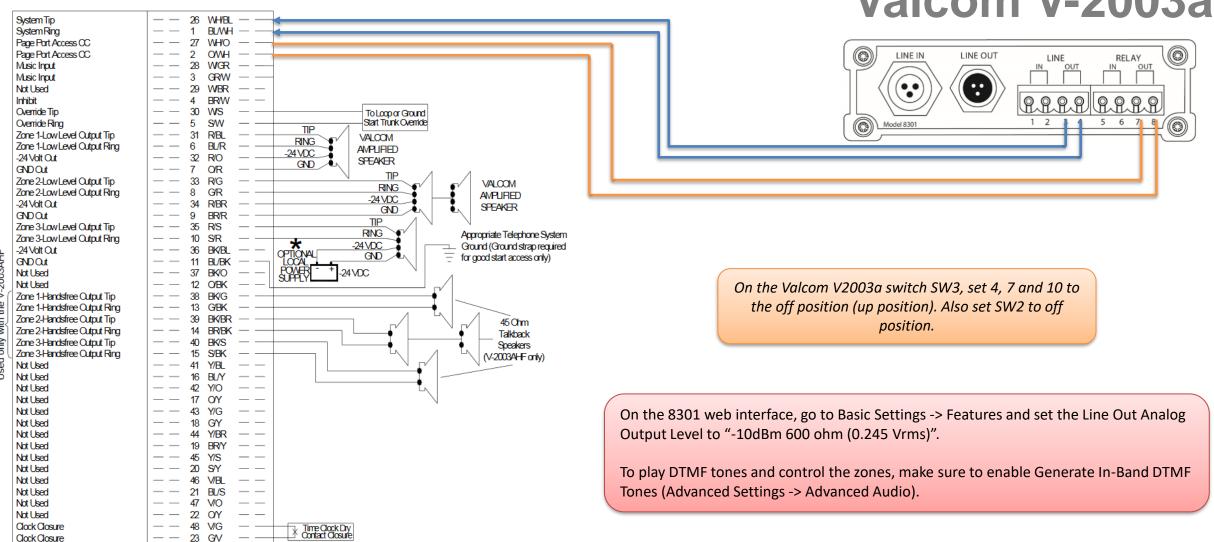


**UNA Closure** 

UNA Closure UNA Ringing

**UNA** Ringing

#### 8301 Installation Example with Valcom V-2003a

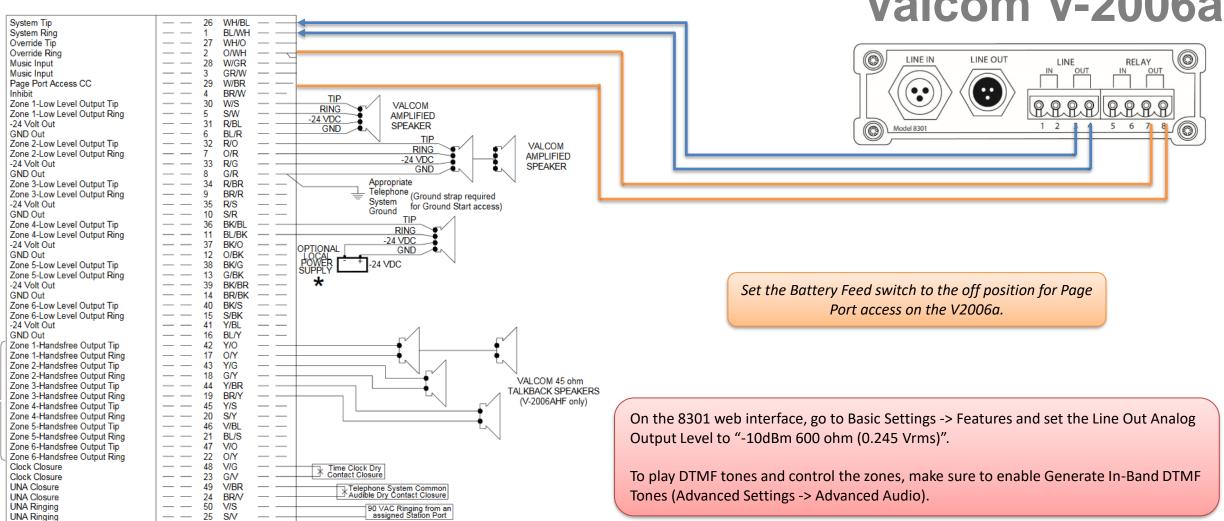


Telephone System Common Audible Dry Contact Closure

V/S

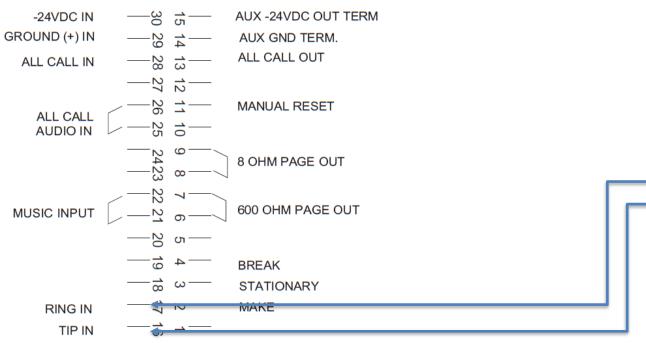


#### 8301 Installation Example with Valcom V-2006a





#### 8301 Installation Example with Valcom V-9940



LINE IN LINE OUT LINE OUT IN O

Ensure that only DIP Switches 1 and 8 are ON. If the device is not working try turning DIP Switch 1 OFF.

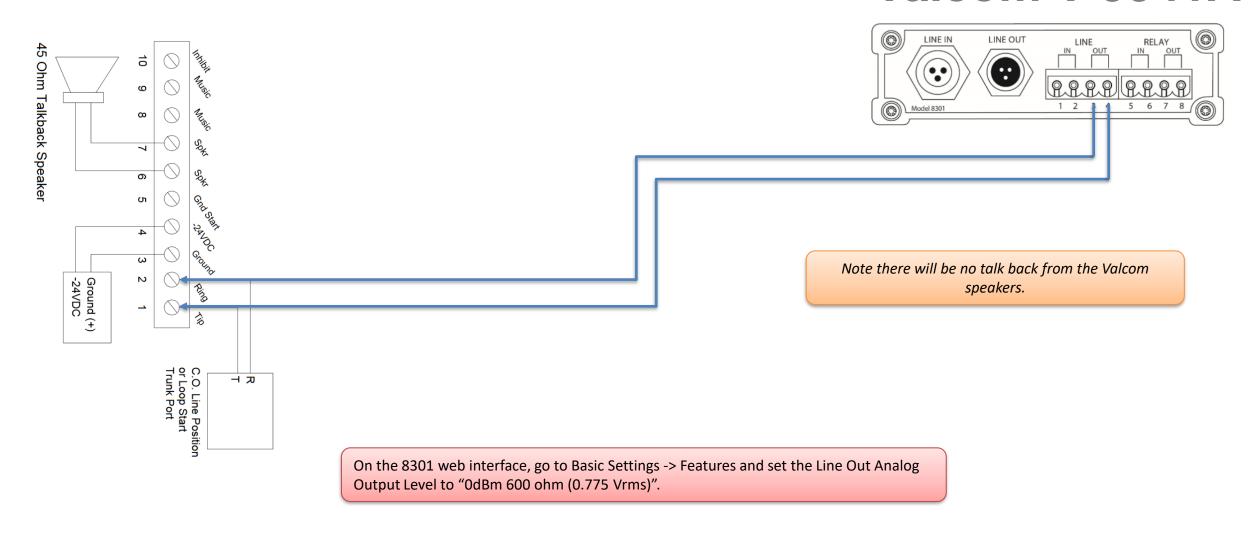
SW	OFF	ON
1	Audio Sense Enable	Time Out Enable
2	Not 1 Sec.	1 Second
3	Not 64 Sec.	64 Seconds
4	Not 32 Sec.	32 Seconds
5	Not 16 Sec.	16 Seconds
6	Not 8 Sec.	8 Seconds
7	Not 4 Sec.	4 Seconds
8	Loop Detect Disable	Loop Detect Enable
	1 2 3 4	5 6 7
ON		
OFF		

Output Level to "-20dBm 600 ohm (0.077 Vrms)".

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog

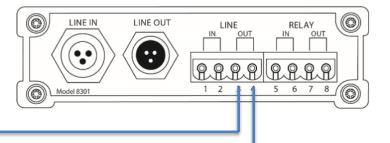


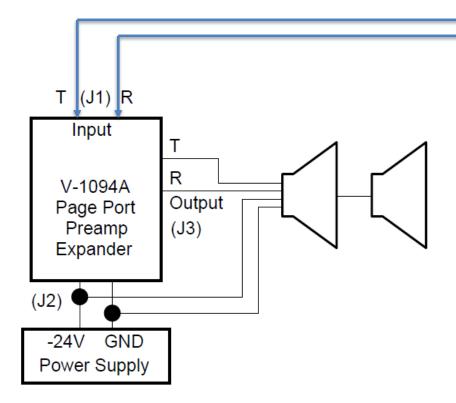
#### 8301 Installation Example with Valcom V-9941A





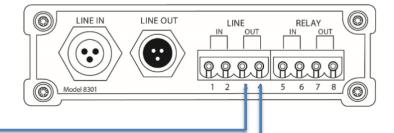
#### 8301 Installation Example with Valcom V-1094A







#### 8301 Installation Example with Valcom V-2924A



Block P7 - System Inputs

		i i ojotom mputo	
26	W/BL	Tip - Attendant Tel	Croup 1
1	BL/W	Ring - Attendant Tel	•
27	W/O	Common Audible C.C.	
2	O/W	Common Audible C.C.	
28	W/GR	BGM Input	
3	GR/W	BGM Input	
29	W/BR	Riot Mode	
4	BR/W	Riot Mode	
30	W/S	External Tone - Tip	
5	S/W	External Tone - Ring	
31	R/BL	Clock Activate	
6	BL/R	Clock Activate	
32	R/O	Clock Enable C. C.	Group 2
7	O/R	Clock Enable C. C.	
33	R/G	Emergency Activate	
8	G/R	Emergency Activate	
34	R/BR	Emergency Enable C. C.	
9	BR/R	Emergency Enable C. C.	
35	R/S	Override Page Port - Tip	
10	S/R	Override Page Port - Ring	
36	BK/BL	Dry Priority Activate	
11	BL/BK	Dry Priority Activate	
37	BK/O	Inhibit	
12	O/BK	Inhibit GND	

Set the Battery Feed switch (SW4) to off for Page Port access.

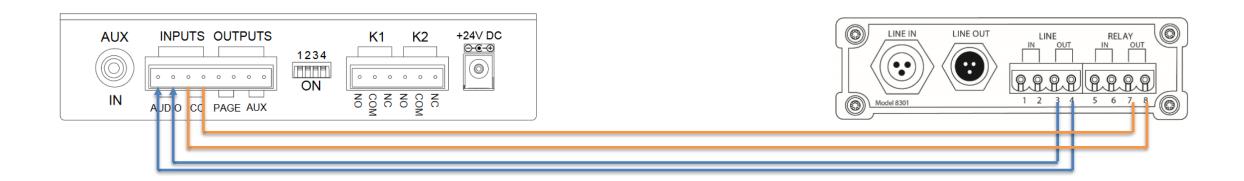
Note there will be no talkback via the Valcom V-2924A.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to "-10dBm 600 ohm (0.245 Vrms)"..

To play DTMF tones and control the zones, make sure to enable Generate In-Band DTMF Tones (Advanced Settings -> Advanced Audio).

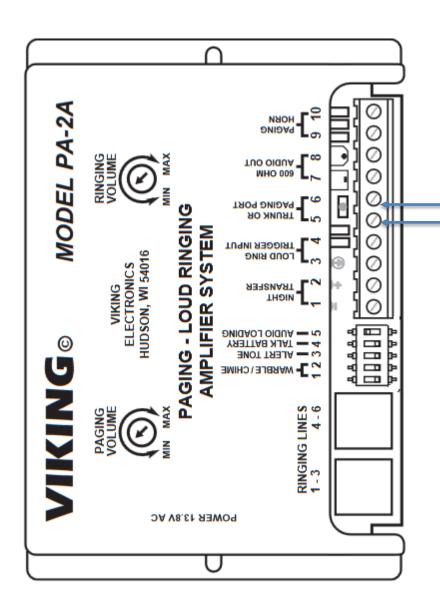


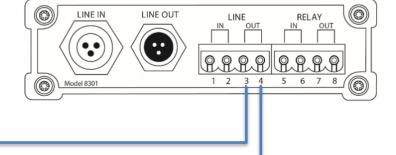
#### 8301 Installation Example with Valcom VIP-801A





## 8301 Installation Example with Viking PA-2A

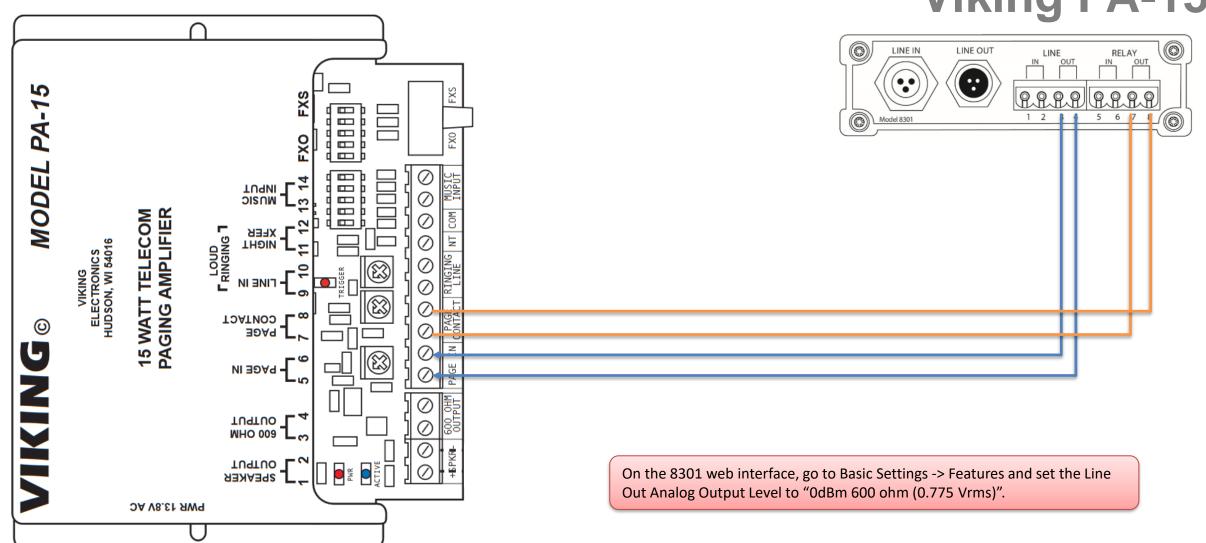




Set DIP switch 4 for talk battery to the OFF position on the PA-2A to prevent damaging the 8301.

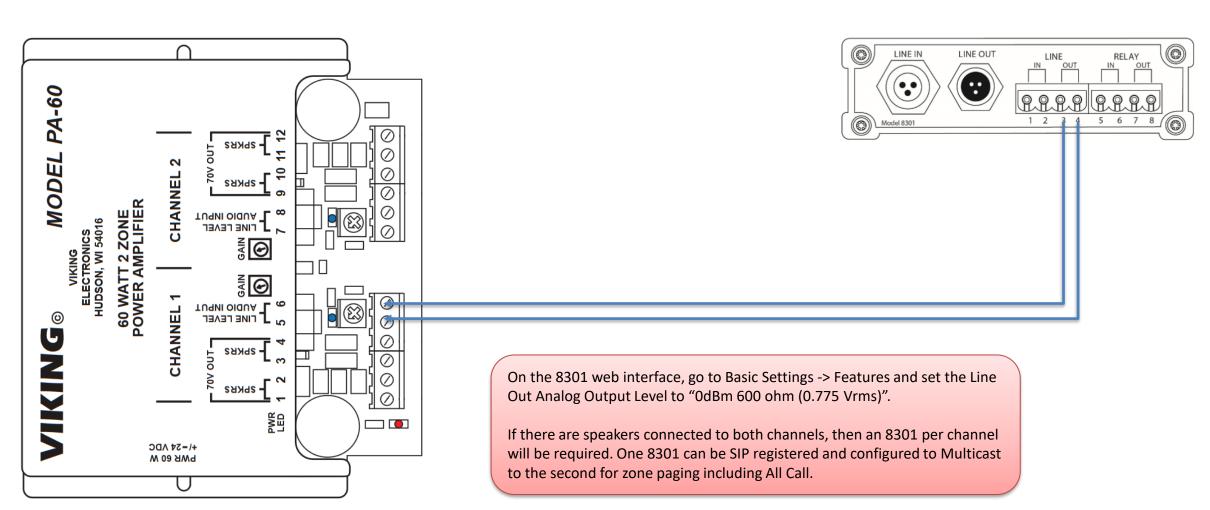


## 8301 Installation Example with Viking PA-15





## 8301 Installation Example with Viking PA-60



#### **ALGO**

Please contact us if there are additional amplifier models you wish to see included in this guide.



Support (604) 454-3792 <a href="mailto:support@algosolutions.com">support@algosolutions.com</a>