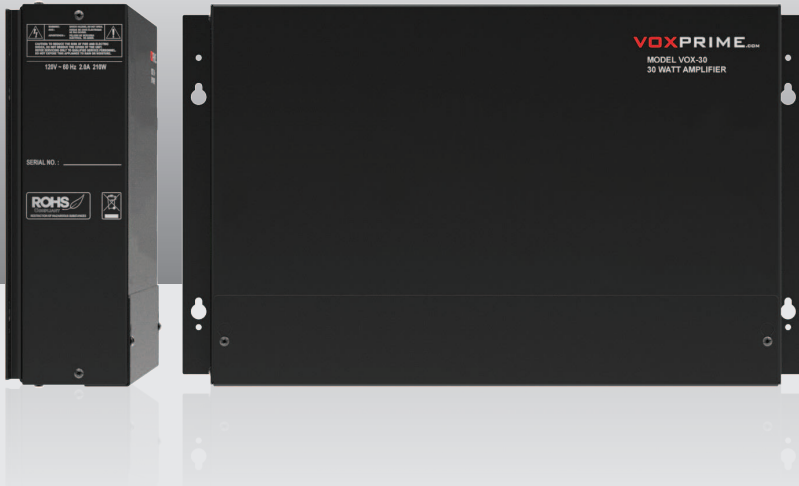


# VOXPRIME

The Telephone Paging Specialists

## VOX-30 PRODUCT MANUAL



### DESCRIPTION

The VOX-30 is one of the most cost-effective telephone paging amplifier in its category.

It has all the required features for basic installations such as the night ringer. It is the perfect solution for small installations.



### FEATURES

Built-In Night Ringer	Output fully short circuit protected
Music Input (RCA or Screw Terminal)	Thermal and electronic overload protection
30W RMS	Wall Mount & Rack Mount installation
25V / 70V Output	Heavy Duty Design
VOX with sensitivity level Control	RoHS Compliant
Volume, Bass & Treble level controls	Made in Canada
Separate level controls for Music & Telephone	5 Years Warranty
Peak Level Indicator	UL/CSA Listed

# Table of Contents

Product Overview .....	3
Telephone Port.....	3
Night Ringer .....	3
Installation .....	4
Wiring Connections.....	5
Controls.....	6
Operation .....	7
LED Indicators .....	7
Telephone Access.....	7
Technical Support .....	8
Specifications .....	8
5 YEARS Limited Warranty .....	9
Class B Digital Device Warnings .....	9

## Product Overview

---

The VOX-30 is a 70/25V 100 Watts wall mount Telephone Paging Amplifier that offers a cost-effective solution that includes a range of most-needed input features like music and paging for small to medium-sized installations.

The volume, bass and treble controls independently adjust the sound quality for the music and paging interface. This flexibility allows the audio signals from each input to provide the best possible acoustic experience.

The VOX-30 amplifier includes a built-in night ringer that can be triggered by either a standard telephone (analog) ring signal or an external contact closure.

### Telephone Port

The VOX-30 will sense the telephone system's dry relay contact closure in order to trigger a page. If the telephone system doesn't provide a dry relay contact to indicate when a page is in progress, the VOX-30 can instead detect an audio signal on the page port using the VOX detection circuit.

### Night Ringer

The Night Ringer generates a telephone ringtone over the speakers. It can be activated by a ring signal from a 90V telephone ring signal or from a contact closure supplied by the telephone system's dry contact. The background music is muted while the Night Ringer is in progress. Furthermore, the Night Ringer and paging have the same priority and as a result both will be heard simultaneously.

# Installation

---

Using the provided screws, mount the amplifier on a wall or backboard (plywood should have 3/8" minimum thickness) capable of securely supporting its weight.

Make sure no radiators or other heat producing elements are nearby.

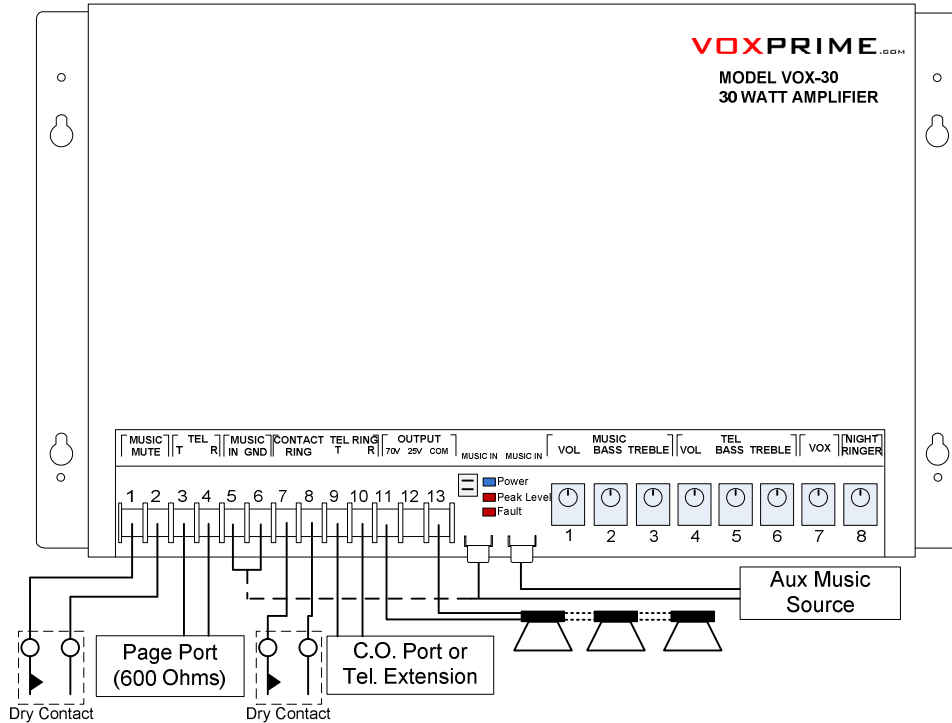
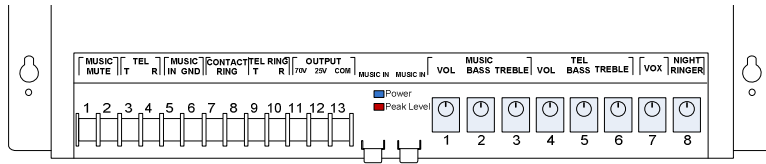


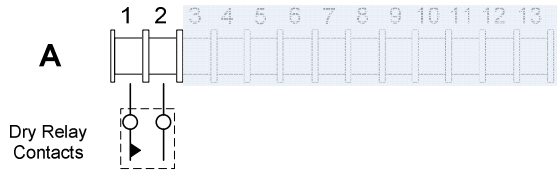
Figure 1

The VOX-RMK (Rack Mounting Kit, sold separately) is required for mounting the VOX-30 onto a 19" rack.

# Wiring Connections



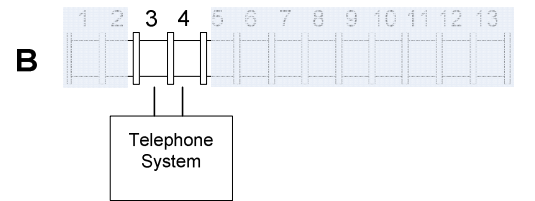
In accordance with your particular system installation and requirements, make the following connections at the terminal blocks.



**A) Terminals 1&2 – MUSIC MUTE**

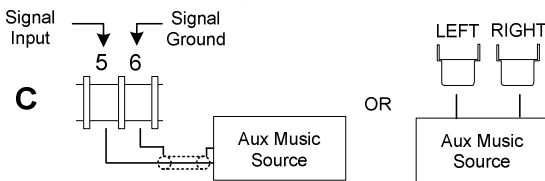
Connect the telephone system page port dry relay contacts to these terminals. This will activate the voice input of the amplifier and deactivate the music input (Music mute) thus cutting off the background music.

Note : This input is isolated from the unit's chassis.



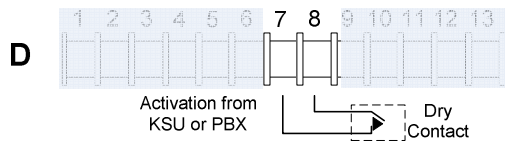
**B) Terminals 3&4 – TELEPHONE PORT**

This port has to be connected to the telephone system page port. It can be activated with the Music Mute using the dry relay contacts or the VOX detection if no dry relay contacts are available on the telephone system.



**C) Terminals 5&6 or RCA Jacks – MUSIC IN (Unbalanced Input)**

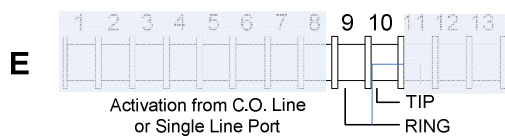
Connect an auxiliary music source to these terminals, noting that pin 6 is a signal ground pin. It is important that shielded cable be used to avoid any induced hum. Use some RCA cables to connect the music source using the RCA jacks.



**D) Terminals 7&8 – CONTACT RING (Night Ringer Activation)**

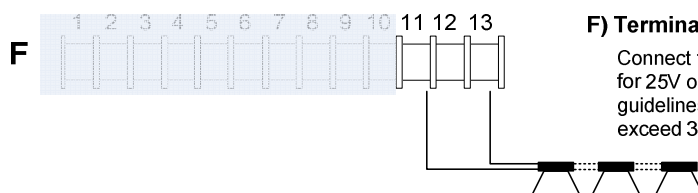
Connect N.O. (normally open) dry relay contact from KSU or PBX to these pins.

Note : Isolated from the unit's chassis.



**E) Terminals 9&10 – TELEPHONE RING (Night Ringer Activation)**

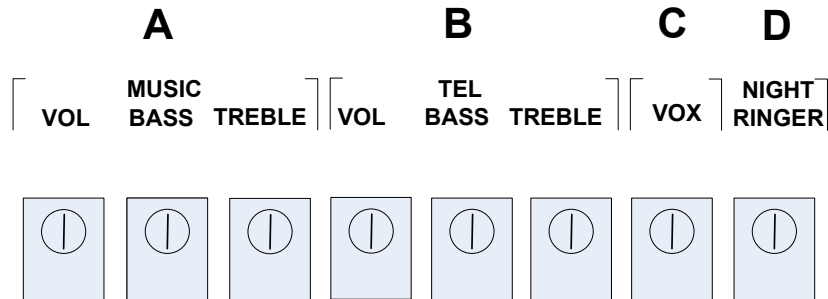
Connect Tip & Ring from C.O. line or phone system single line port.



**F) Terminals 11, 12 &13 – OUTPUT**

Connect the speaker wiring to terminal 11 for 70V output, terminal 12 for 25V output and terminal 13 for the common. Follow the guidelines for Class 2 Wiring making sure that the total load does not exceed 30W.

# Controls



## A) MUSIC (Volume-Bass-Treble)

Adjust the level and tone of the background music.

## B) TEL (Volume-Bass-Treble)

Adjust the level and tone of the tel input.

## C) VOX Control Setting

Control setting for **VOX** (Voice activated switch)

This control adjusts the sensitivity of the VOX threshold of the voice (Tel) input. To adjust the VOX threshold, the following procedure should be followed:

- 1) Set the VOX control fully counter clockwise (background music should be on).
- 2) Have someone, such as the receptionist, make a page call. During the page call, slowly turn the VOX control clockwise until the VOX circuitry triggers. This will cause the background music to cut off allowing the page to be heard over the speaker(s).
- 3) Turn the control an additional 1/8 turn clockwise and leave it at this setting.

If the VOX function has a tendency to drop out, slightly increase (clockwise) the control setting.

Notes:

1) The absence of speech for more than 3 seconds releases the VOX and the background music comes back on.

2) This adjustment is critical and may require some experimentation.

## D) NIGHT RINGER Volume

Adjust the level of the night ringer signal over the speakers.

# Operation

---

## LED Indicators

The VOX-30 has 2 different LEDs to indicate various statuses and conditions.

The table below lists the different LED indicators and describes their function for a particular operating condition.

LED Indicator	Description
Power	Indicates that the amplifier is powered.
Peak Level	Indicates when the speaker output signal level is approaching its maximum level. This indicator should flash intermittently upon loud peaks only. If it illuminates steadily then there may be some distortion. In this case, decrease the volume control for the appropriate input until the indicator flashes intermittently.

## Telephone Access

The operator can access the VOX-30 via the page port of a telephone system.

## Technical Support

---

Should you require technical assistance during installation, please call our Toll free Technical Support Line on **1-888-633-2666**.

## Specifications

---

Power Output: 30 watt RMS Continuous / 30 watt Paging

Distortion: Less than 1%

Frequency Response:  $\pm 3$  dB, 100  $\approx$  20,000Hz

Sensitivity: TEL: 150mV; MUSIC: 100mV

Inputs: TEL: 600 $\Omega$  balanced line, transformer-isolated  
MUSIC: 10k $\Omega$  unbalanced, Hi-Z source, RCA jacks or screw terminals  
MUSIC MUTE: Mutes music when shorted  
CONTACT RING: Triggers night ringer when shorted  
TEL RING: Triggers night ringer in response to 90V ring signal

Indicators & Controls: POWER AND PEAK LEVEL LED indicators. MUSIC VOLUME, MUSIC BASS, MUSIC TREBLE, TEL VOLUME, TEL BASS, TEL TREBLE, VOX, NIGHT RINGER.

Outputs: OUTPUT (70/25V RMS)

Overload Protection: Thermal and electronic protection

Power Source: 120V AC, 60Hz

Power Consumption: 30 watts

Finish: Black powder paint with silver and red lettering

Dimensions: 14- $\frac{1}{4}$ " W x 8- $\frac{3}{8}$ " H x 2- $\frac{3}{4}$ " D

Weight: 7 lbs

## 5 YEARS Limited Warranty

---

**VOXPRIME** warrants its products to be free from defects in materials and craftsmanship during normal usage for a period of five (5) years after shipment of the unit from our warehouse. **VOXPRIME** will repair or replace, free of charge, a product should it, upon examination, be proved defective and under warranty. **VOXPRIME** reserves the right to make the final decision as to whether there is an actual defect in the material and/or craftsmanship, and whether or not the product is under warranty.

This warranty shall not apply to any **VOXPRIME** product that has been subject to misuse, neglect, accident, or shows evidence of having been used in violation of operating instructions. This warranty shall not apply to any **VOXPRIME** products that have been repaired or altered outside of our factory.

This warranty covers bench repairs only. Any repairs must be made at the shop or place designated in writing by **VOXPRIME**. **VOXPRIME** will not be responsible for any costs incurred involving on-site calls.

All implied warranties, including any implied warranty of merchantability or fitness for any particular purpose, are limited in duration to five (5) years after shipment of the unit from our warehouse. In no event will **VOXPRIME** be responsible for damages resulting from the use of this product.

## Class B Digital Device Warnings

---

### Information to owner or installer

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and if not installed and used in accordance with the instructions included, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception - which can be determined by turning the equipment off and on - the operator can attempt remove the interference by employing one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio/TV technician for assistance

Any changes or modifications not expressly approved by **VOXPRIME** could void the owner's authority to operate the equipment.