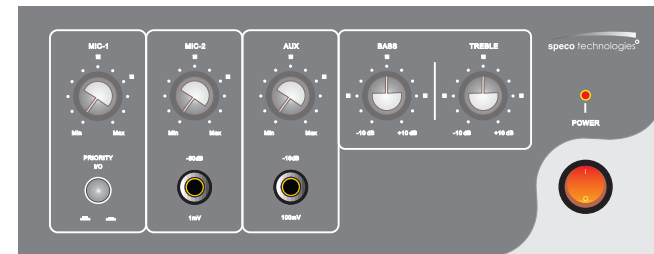




INSTRUCTION MANUAL



FOR ASSISTANCE OR REPAIR SERVICE CONTACT:



200 New Highway, Amityville, NY 11701-0726
631-957-8700 • Toll Free: 1-800-645-5516
www.specotech.com

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**PVL-15A/30A
PUBLIC ADDRESS
AMPLIFIER
15/30 WATTS RMS**

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT FULLY INSERTED.



This lightning flash with arrow-head symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION


**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

Warning: To reduce the risk of electric shock, do not remove cover (or back). There are no user-serviceable parts inside. Refer servicing to qualified service personnel.

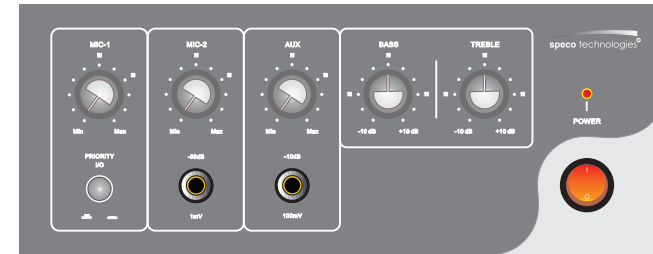


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
 2. Keep these instructions.
 3. Heed all warnings.
 4. Follow all instructions.
 5. Do not use this apparatus near water.
 6. Clean only with dry cloth.
 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
 10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
 11. Only use attachments/accessories specified by the manufacturer.
 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 
13. Unplug the apparatus during lightning storm or when unused for long periods of time.
 14. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
 15. This appliance shall not be exposed to dripping or splashing water and no object filled with liquid such as vases shall be placed on the apparatus.
 16. Caution-to prevent electrical shock, match wide blade plug to wide slot and fully insert.
 17. Please keep a well ventilated environment around the entire unit.

PROFESSIONAL SERIES AMPLIFIER



PVL-15A, 30A

Welcome

Congratulation and thank you for purchasing PVL15A, 30A series, the multi function commercial amplifiers. These amplifiers are designed to provide quality sound reproduction and to produce the best and highest quality audio at an affordable price. We wish you great enjoyment and satisfaction when using your amplifier, whether you are installation, or reinforcement engineer.

Unpacking and Installation

Although it is neither complicated to install nor difficult to operate your amplifier, a few minutes of your time is required to read this manual for a properly wired installation and familiarity with its many features. Please take great care in unpacking your amplifier and do not discard the carton or other packing materials. These may be needed when moving your amplifier and are required if it ever becomes necessary return your amplifier for service. Never place the unit near radiators, in front of heating vents, in direct sunlight, or in excessively humid or dusty location to avoid damage. Connect your complementary components as illustrated in the following page.

Packing List

The unit was carefully checked before leaving the factory.
The Professional Series carton contains the following components:
1 - Professional Series unit
1 - User Manual

SERVICE AND MAINTENANCE

The use of solid state circuitry and advanced manufacturing techniques built in your unit results in very high reliability, and under normal operating conditions, your amplifier should not require service other than an occasional external cleaning.

Keep the original carton and packing material to use if you need to return your unit for service. Merchandise to be returned for out-of-warranty or in-warranty repair requires prior written authorization. Please write or call toll free 1-800-645-5516 or in METRO NEW YORK 631-957-8700. We request you enclose a packing slip with the shipment that has a complete description of the problem and dated proof of purchase, if in warranty. When shipping the unit to the factory, please be sure to pack the unit well enough to withstand rough handling and use return shipping label supplied by Speco technologies. Ship the unit FREIGHT PREPAID, TO :

200 NEW HIGHWAY- P.O. BOX 726
AMITYVILLE, NEW YORK 11701-0726

When ordering parts, please give a description or the part number, if available. Direct your order to the PARTS DEPARTMENT. We will then advise total cost for remittance including shipping and handling.



Speco technologies
200 New Highway P.O. Box 726
Amityville, N.Y. 11701-0726
U.S.A.

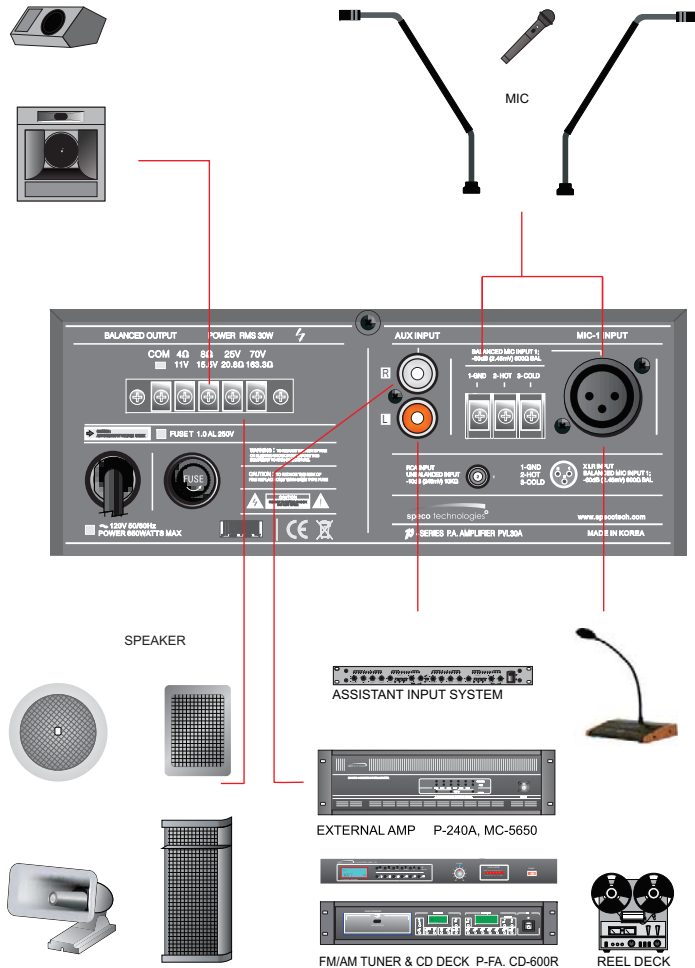
TEL : 631-957-8700, 1-800-645-5516
www.specotech.com

SPECIFICATIONS

RMS POWER OUTPUT	15/30 Watts @1% THD
MAX POWER OUTPUT	30/60 Watts
RMS POWER BANDWIDTH	30Hz to 20KHz, +/-3dB
FREQUENCY RESPONSE (RMS POWER)	30Hz to 20KHz, -3dB/-1dB (Aux Input)
INPUT SENSITIVITY	
Mic. 1,	2.45mV -50dB 600Ω BAL
Mic. 2,	2.45mV -50dB 600Ω BAL
Aux. 1,	245mV -10dB 10KΩ UNBAL
HUM & NOISE	
Mic. 1,	75dB (Balanced)
Mic. 2,	75dB (Balanced)
Aux. 1,	80dB (Unbalanced)
TONE CONTROL	+/- 10dB Bass, Treble.
SPEAKER OUTPUT	4, 8 ohms, 25V and 70V
AC SUPPLY VOLTAGE	120V AC 50/60Hz
AC POWER CONSUMPTION	
Stand-by	10 Watts
@Max. RMS Output	60/100 Watts
CONTROLS	
2 Mic. Vol.	
1 Aux. Vol.	
1 Priority push switch.	
2 Tone Control	
1 Power on/off switch	
DIMENSION (H x W x D)	78mm x 200mm x 210mm 3" x 7 3/2" x 7 3/3"
WEIGHT	3.8Kg / 4.8Kg (8.4 lb/10.6 lb)
NOTE ; Specifications and design subject to change without notice.	

CONNECTIONS

Typical input and output wiring is shown in figure.



DESCRIPTION

The PVL-15/ 30A is a rugged, dependable, 15W/30W public address amplifier. This unit contains features generally found in much higher priced models and can be used with virtually any program source. The PVL-15/ 30A feature 2 microphone inputs. The 2 microphone inputs may be used for high or low impedance microphone. HI- Z microphone (over 1k ohm) input is for unbalanced operation. Wiring LO- Z microphone (up to 600 ohm) input may be operated balanced or unbalanced. Mic-1 input may be used for priority paging. The unit has AUX input for use with radio tuners, tape decks or other high impedance, high output devices. The inputs are controlled by their individual volume controls. Outputs are provided for 4 and 8 ohms speakers and 25V and 70V constant voltage lines.

CONTROLS

FRONT PANEL CONTROLS

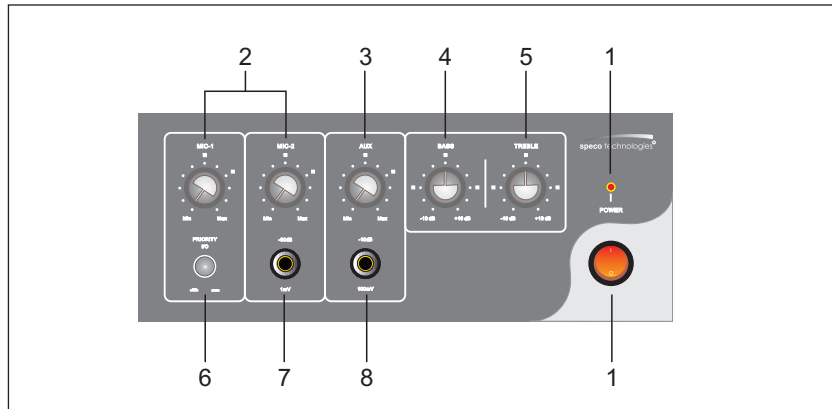
- a. **THE POWER SWITCH :**
The Power switch is located at the extreme right hand side of the front panel. When switching the amplifier on, the red switch will become illuminated.
- b. **MICROPHONE VOLUME CONTROL :**
Rotating the microphone controls clockwise increases the gain of the microphone inputs.
- c. **AUX VOLUME CONTROL :**
Rotating the AUX controls clockwise increases the gain of the AUX input.
- e. **TONE CONTROL :**
Rotating the Tone control clockwise increases the Bass/Treble and counter clockwise increase the Bass/Treble. Tone is flat at center.

PRIORITY AND MUTING (VOX)

The Mic-1 priority switch will activate the priority circuit which temporarily mutes signals from other inputs,

CONTROLS

1. FRONT PANEL CONTROLS



1. POWER SWITCH

When powering the amplifier on, the switch will illuminate.

2. MIC VOLUME CONTROL

Rotating the microphone controls clockwise increases the gain of the microphone inputs.

3. AUX VOLUME CONTROL

Rotating the AUX controls clockwise increases the gain of the AUX input.

4. BASS CONTROL

This control is used for adjusting +/- 10db low frequency sound(100Hz)

5. TREBLE CONTROL

This control is used for adjusting +/- 10db high frequency sound(10KHz)

6. MUTING FOR PRIORITY SWITCH

Input to Mic 1 will automatically activate the priority circuit which temporarily mutes signals from other inputs, tuner or tape.

7. MIC-2 INPUT

LO-Z Balanced type 2.45mV/600Ω

8. AUXILIARY INPUTS

HI-Z Unbalanced type 245mV/10KΩ

INSTALLATION

1. POWER :

The PLV-15/30 A Amplifier is to be operated from a AC120V 50/60Hz Power source. The power required for this amplifier is clearly indicated on the back panel.

2. INPUT CONNECTIONS :

Make connections to the microphone (high or low impedance) and auxiliary inputs with the POWER SWITCH in the OFF position and set corresponding volume control to zero to avoid damage to the speakers and the amplifier from hum pickup. (Feedback)

a. MICROPHONE CONNECTIONS :

A Switch craft type A3M Microphone connector or equivalent is required for making connections to the Microphone inputs and audio shielded cable is required for all balanced and unbalanced microphone input connections.

BALANCED MICROPHONE INPUT CONNECTIONS(MIC. 1/2 only) :

Using 2 conductor shielded cable, connect each of the two center conductors of the cable to prongs # 1 and #2 of the A3M Microphone connector. Connect the shield of the cable to prong #1 of the A3M Microphone connector.

UNBALANCED MICROPHONE INPUT CONNECTIONS (MIC. # 1 & #2) :

Using single conductor shielded cable, connect the center conductor of the cable to prong #2 of the A3M Microphone connector. Connect the shield of the cable to prong #1 of the A3M Microphone connector.

b. AUXILIARY INPUTS :

The auxiliary input receptacles and all other phono input require an 1/4" Type phono plug (Cinch-jones #13A) or equivalent.

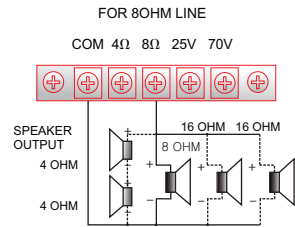
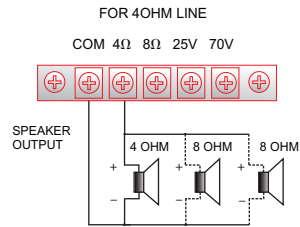
INSTALLATION OF SPEAKERS

MODEL	4 OHM	8OHM	25V	70V
PVL15A	7.7V	11V	41.7 OHM	327 OHM
PVL30A	11V	15.5V	21 OHM	163 OHM

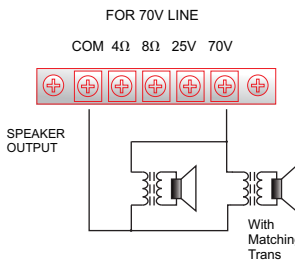
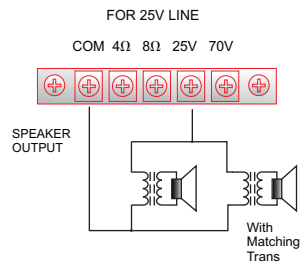
Installation of the Speaker

When you connect the speaker, remove the AC cord from AC OUTLETS then connect the speakers as described below, after selecting the suitable terminal.

FOR LOW IMPEDANCE WIRING



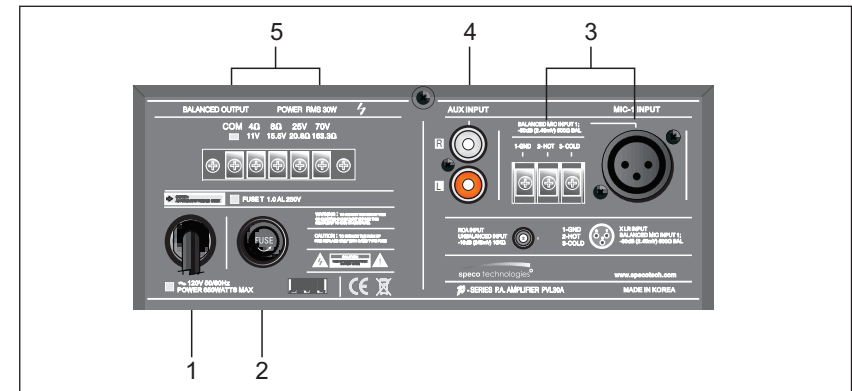
FOR HIGH IMPEDANCE WIRING



*Be sure that total impedance is not less than rated impedance. (See upper chart.)

CONTROLS

1. BACK PANEL CONTROLS



1. AC INLET

This is the AC INPUT for the AC INPUT CORD. **CAUTION** : Voltage Check !.

2. FUSE HOLDER

This fuse holder contains the AC power fuse. Replace only with same type fuse when it is blown. If it continuously blows, stop replacing fuse and refer servicing to qualified personnel.

MODEL	PVL-15A	PVL-30A
FUSE RATING	0.5A/250V	1A/250V

3. MIC-1/2 INPUT

These are XLR or PL55 input and are designed for electrical balanced circuitry (XLR Mic-1, PL55 Mic-2)

4. AUX INPUT

The sound source (from CD Mp3 cassette deck etc.) is connected to this RCA input (PVL30A only)

Please note: The rear inputs (#3 & #4) on the PVL30A are alternatives to the front inputs and must not be used simultaneously.

5. SPEAKER OUTPUT TERMINALS

These terminals are for speaker connection. You can select 4 ohm or 8 ohm or higher impedance lines 25V and 70V. Be sure not to make the total impedance less than rated impedance on 25V or 70V. 4 ohm and 8 ohm must be matched exactly.

MODEL	4 OHMS	8 OHMS	25V	70V
PVL-15A	7.7V	11V	41.7 OHM	327 OHM
PVL-30A	11V	15.5V	21 OHM	163 OHM

* Be sure not to make the total impedance less than rated impedance.

WIRING GUIDE

Choose input wire and connectors

HCA recommends using pre-built or professionally wired balanced line, 22 to 24 gauge cables. Figure shows connector pin assignments for wiring. The RCA input connections can also be used for unbalanced inputs

XLR BALANCED WIRING GUIDE

Input



output

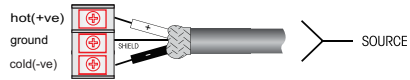


Input output pin no:

- 1=ground/shield
- 2=hot(+ve)
- 3=cold(-ve)

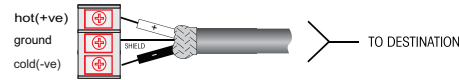
For unbalanced use pin 1 and 3 have to be bridged

BALANCED LINE



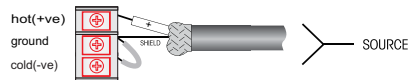
MIC INPUT

BALANCED LINE



OUTPUT

UNBALANCED LINE



MIC INPUT

UNBALANCED LINE

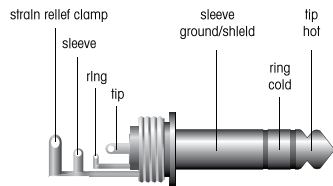


OUTPUT

(This connection reduces the signal level by 6 dB)

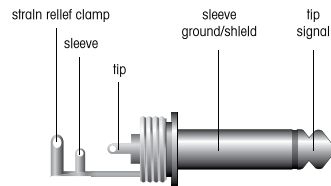
TO DESTINATION
UNGROUND
PRODUCT WITH
2-PRONG POWER
CORO ONLY

Balances 1/4" Connector



For connection of balanced and unbalanced plugs, ring and sleeve have to be bridged at the stereo plug

Unbanded 1/4" Connector



PVL-15A. 30A

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OPERATION

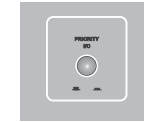
POWER SWITCH



The POWER switch applies power to unit.
The switch will illuminate LED when power is on.

MAIN POWER SWITCH

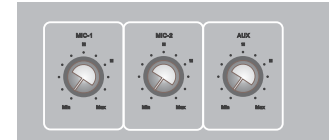
PRIORITY AND MUTING ON/OFF SWITCH



Input to Mic-1 on switch will activate the priority circuit

VOX CONTROLS SWITCH

INDIVIDUAL VOLUME CONTROLS



Each input is controlled by an individual volume control.

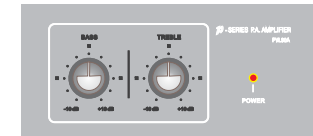
MIC AUX VOLUME CONTROLS

TONE CONTROL

The control section of center (1KHz) provides +/-0dB of the TREBLE and BASS range. These frequency ranges are ;

Bass 100Hz : +/-10dB
Treble 10KHz : +/-10dB

BAND FREQUENCY



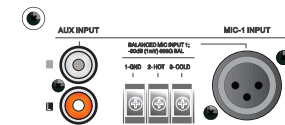
TONE CONTROLS

FRONT MIC-2 AND AUX INPUT JACK



These jack(PL-55) are for AUX input.
HI-Z Unbalanced type 245mV/10KΩ

AUX JACK (PL55 TYPE 1/4")



BACK MIC-2 AND AUX INPUT JACK

RCA INPUT UNBALANCED INPUT -20dB (245mV) 10KΩ

1-GND 2-HOT 3-COLD

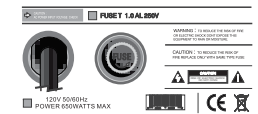
XLR INPUT BALANCED MIC INPUT 1; -60dB (2.45mV) 600Ω BAL

SPEAKER OUTPUT TERMINALS

BALANCED OUTPUT		POWER RMS 32W	
COM	4Ω 8Ω 25V 70V	COM	4Ω 8Ω 25V 70V
	11V 15.5V 20.8Ω 163.3Ω		11V 15.5V 20.8Ω 163.3Ω

PVL-15A
COM 4Ω 8Ω 25V 70V
11V 15.5V 20.8Ω 163.3Ω

PVL-30A
COM 4Ω 8Ω 25V 70V
11V 15.5V 20.8Ω 163.3Ω



POWER CORD AND FUSE

PVL-15A. 30A

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