

# PROFESSIONAL PA. AMPLIFIER INSTRUCTION MANUAL



English

## SAFETY RELATED SYMBOLS



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure-voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature.

Read the manual.



Protective grounding terminal.



Alternating current /voltage.



Hazardous live terminal.

**ON:** Denotes the apparatus turns on.

**OFF:** Denotes the apparatus turns off, because of using the single pole switch, be sure to unplug the AC power to prevent any electric shock before you proceed your service.

**WARNING:** Describes precautions that should be observed to prevent the danger of injury or death to the user.

**CAUTION:** Describes precautions that should be observed to prevent danger of the apparatus.

### WARNING

#### • Power Supply

Ensure the source voltage matches the voltage of the power supply before turning ON the apparatus.

Unplug this apparatus during lightning storms or when unused for long periods of time.

#### • External Connection

The external wiring connected to the output hazardous live terminals requires installation by an instructed person, or the use of ready-made leads or cords.

#### • Do not Remove any Cover

There are maybe some areas with high voltages inside, to reduce the risk of electric shock, do not remove any cover if the power supply is connected.

The cover should be removed by the qualified personnel only.

No user serviceable parts inside.

#### • Fuse

To prevent a fire, make sure to use fuses with specified standard (current, voltage, type). Do not use a different fuse or short circuit the fuse holder.

Before replacing the fuse, turn OFF the apparatus and disconnected the power source.

#### • Protective Grounding

Make sure to connect the protective grounding to prevent any electric shock before turning ON the apparatus.

Never cut off the internal or external protective grounding wire or disconnect the wiring of protective grounding terminal.

#### • Operating Conditions

This apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on this apparatus. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Do not use this apparatus near water.

Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not block any ventilation openings.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

## **IMPORTANT SAFETY INSTRUCTIONS**

- Read these instructions.
- Follow all instructions.
- Keep these instructions.
- Heed all warnings.
- Only use attachments/accessories specified by the manufacturer.

### **• Power Cord and Plug**

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.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

### **• Cleaning**

When the apparatus needs a cleaning, you can blow off dust from the apparatus with a blower or clean with rag etc. Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flammability for cleaning

the apparatus body.

Clean only with dry cloth.

### **• Servicing**

Refer all servicing to qualified personnel. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**THANK YOU FOR CHOOSING A PROFESSIONAL PA. AMPLIFIER FOR OUR COMPANY'S PRODUCTS.**

- Your new Unit is an exceptionally well-engineered product that will give you hear of superb performance.
- Save all packhear material. It is essential for shopping should you move, or in the event the unit ever needs repair.

1. Date of purchased: \_\_\_\_\_

2. Purchased from: \_\_\_\_\_

3. Address if business purchased from: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Installed by: \_\_\_\_\_

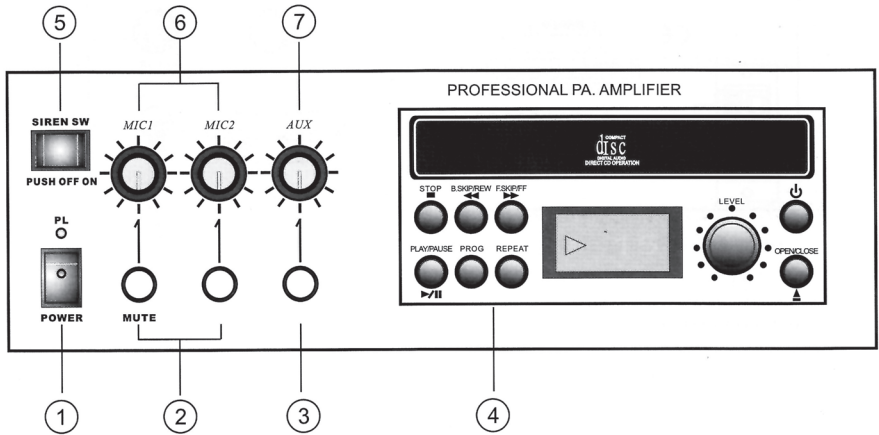
5. Date installed: \_\_\_\_\_

6. Serial No: \_\_\_\_\_

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# 1. FRONT PANEL CONTROLS



## ① "POWER" SWITCH

Using the POWER switch lets you turn the amplifier on or off. The power is on when the switch is turned up, and it is off when the switch is turned down.

## ② MIC INPUTS

This MIC input jack is a  $\phi 6.3\text{mm}$  (1/4") unbalanced jack input, specifically designed for a dynamic microphone.

## ③ AUX INPUT

The AUX input jack is a  $\phi 6.3\text{mm}$  (1/4") unbalanced jack. You can connect audio from HiFi-VCRs, cassette and reel-to-reel tape decks, DAT machines, CD players, Laser discs, tuners, even synthesizers or other mixing consoles.

## ④ CD player

## ⑤ SIREN switch

It is used to switch the SIREN on or off.

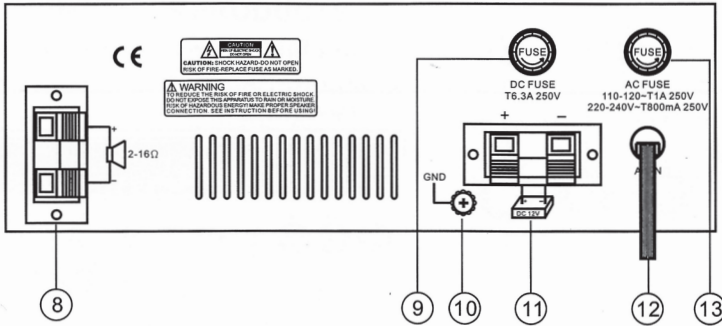
## ⑥ MIC volume control

This knob is used to adjust the microphone volume output level.

## ⑦ AUX volume control

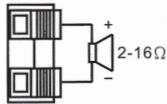
The knob is used to adjust the aux volume output level.

## 2. REAR PANEL CONTROLS



### 8 SP OUTPUT

Connect to speakers.



### 9 DC FUSE

The fuse holder contains DC fuse. When fuse is blown out, it should be replaced with the same and rated type .If it continues to blow out, stop replacing fuse and refer servicing to qualified personnel.

### 10 "GND" screw

In case the used mains outlet does not provide a ground conductor, this screw offers the possibility to ground the amplifiers metal parts. Nevertheless, you should leave this procedure to the experienced, qualified electrician.

### 11 DC INPUT

Please note the +, - polarity, when connection DC 12V terminal in case of using emergency power for unexpected AC power failure

### 12 AC INPUT

Connect AC power main supply and unit via the AC power cord.

**Caution:** Before connecting this unit to the AC supply, be sure that the voltage of appliance is in accordance with your mains supply.

### 13 AC FUSE

This fuse holder contains AC fuse. When fuse is blown out, it should be replaced with the same and rated type .If it continues to blow out, stop replacing fuse and refer servicing to qualified personnel.

- AC110-120V: T1AL /250V
- AC220-240V: T800mAL /250V

### Caution:

The AC selector changed only by manufacturer(It's location is on the bottom ).

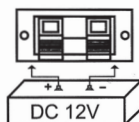
### 3. INSTALL AND CONNECTIONS

#### Caution:

- Before using this unit for the first time, be sure that the appliance's voltage is must accords with to your mains supply. Connecting this unit only to grounded mains outlet.
- Surface with a minimum distance of 1 M from the back or sideplate to the wall.

#### (1). DC power or battery supply's connection

- The unit will also operate from an external 12V battery or other direct current source with negative (-) as ground. Power connection are made at the DC terminal strip on the rear panel.
- If AC power supply fails, transfer to DC power is instantaneous, automatic and silent.
- The battery power supply is operated by the primary switch.
- The amplifier is not capable of recharging the connected battery. Thus, it is recommended to have a suitable device at hand. When the amplifier is operated on the DC power source, the nominal power handling capacity drops by approximately 20%.



#### (2). Input connection

##### Microphones

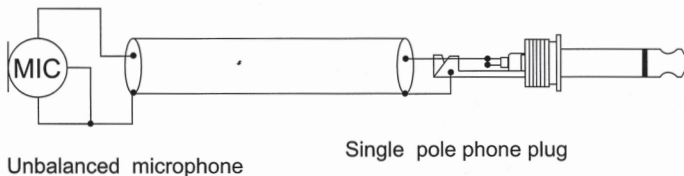
Three microphone inputs are provided. They used with unbalanced low impedance (10k-15k ohms) microphone. the microphone with the unbalanced connection cable of 10-20m may be used depending on the microphone and its characteristic.

##### MIC-1, MIC-2

These two microphone inputs are unbalanced type and are provided with a double pole phone jack.

##### Unbalanced LO Z Microphone

May also be connected to the single conductor shielded cable of unbalanced LO Z microphone.



Unbalanced microphone

Single pole phone plug

### Priority paging:

The amplifier features a transistorized circuit which automatically removes all program material for the amplifier and permits microphone #1 to talk over for special or emergency announcements. This electronic switch is operated from the microphone which must contain a single-pole switch, normally open for actuating this circuit.

### (3) .Output connection

#### Caution:

##### Constant the low impedance lines.

- The total impedance of the speakers connected must correspond to the amplifier's output terminals.
- The sum of the power capacities of the speakers must be no lower than the amplifier's power capacity.
- The length of the connecting cables must be short as possible;with equal of line that CLASS II wire.

## 4. OPERATION

### BASIC OPERATION

- (1). Press the POWER button to ON, then the power lamp lights up; press again to turn the power off, then the power lights extinct.
- (2). CD, MIC1, MIC2, AUX, all have independent volume control, and MIC1 has priority in them. When the signal input the MIC1, the playing signal of MIC2, AUX, CD should be muting, the MIC1 signal will play prior. Turn the VOLUME clockwise to increase the volume and counter clockwise to decrease it.

### (3). Play the CD tape.

When you press the CD power switch's button , then the compact disc player will display, at the same time, tell you that the CD player at the state of ready work.

- a. Press the open/close button, the CD widows will push out, then take a CD Tape in it. Next, press the same button again and after a little time press the play/pause button, at this time, the CD player was working at the normal conditions.

### b. CD function buttons

- " ":CD power switch with two-position for ON-OFF mode, before press it, please turn off the volume knob.
- "OPEN/CLOSE": press the open/close button, the CD window will push out; press the same button again the CD window will push in.
- "PLAY/PAUSE": when press it, the CD player will playing; press the same button again, the CD player will pause play.
- "LEVEL": the VR is CD volume control with adjust gain of CD volume.



- "STOP": when press it, the CD player will stop playing.
- "B.SKIP/REW": when press it, the CD player will backward skip.
- "F.SKIP/FF": when press it, the CD player will forward skip.
- "REPEAT": when press it, the CD player will repeat to play the same song, press it again the CD player will repeat to play all;if press it again, the CD player will return to normal condition of playing.
- "PROG": when press it, the CD player can setup in accordance with you favoured selections.

**NOTE:** Before you press power button to on, be sure to the all volume VR to minimum.

## 5. TROUBLE SHOOTING

This unit is designed for trouble-free operation. That is users may encounter most problem errors. So, if you have a problem, first check this list for a possible solution. If the problem persists, do not attempt to service this unit by yourself, consult your authorized service centers or a highly qualified personnel.

IF THE PROBLEM IS	MAKE SURE THAT THE
No lights illuminate POWER button is pressed.	Unit is plugged into a live outlet, was the AC fuse or DC fuse opened.
No sound is heard.	Volume is turned up Speaker are connected properly
Unit output is intermittent or continuously buzzing or screech	Check the AC power or DC power supply is proper
No output from one or more channels.	Cables are not defective or line: Check/replace speaker cables or line The signal source is operating and. Providing proper signal output to this unit.
No display of compact disc	Check the "⏻" CD power switch is normal.
No output of compact disc player	Check the CD tape cleaning or damage. Clear the laser-head

## 6. SPECIFICATIONS

Type	Professional PA amplifier
Power output	Rated: 45W(2ohm) 27W(4ohm) Max: 90W(2ohm)
Frequency response	30~25,000Hz
Total harmonic distortion	Less than 1.0 % at 1KHz, rated power
Signal to noise ratio	Microphone: Better than 55dB Rated output AUX: Better than 63dB rated output
Inputs	MIC 1: -45dB 10kohm MIC 2: -45dB 10kohm AUX: -20dB 20k ohm
Controls	MIC1 volume control MIC2 volume control AUX volume control CD volume control
Indicator	Power indicator(LED) Digital display (CD player)
AC power supply	110-120V or 220-240V 50/60Hz
DC power supply	12-18V
AC power consumption	110 W rated output at 2ohm
DC power consumption	40W DC $\approx$ 12V rated output at 2ohm
Dimensions	280mm(W)x 92mm(H)x 285mm(D)
Weight	5.55kg (12.24lbs)
Color	Black

### CAUTION:

The AC selector changed only by manufacturer.

**NOTE:** Specifications, design and appearance subject to change without prior notice.

## 7. EXAMPLE OF POSSIBLE CONNECTIONS

