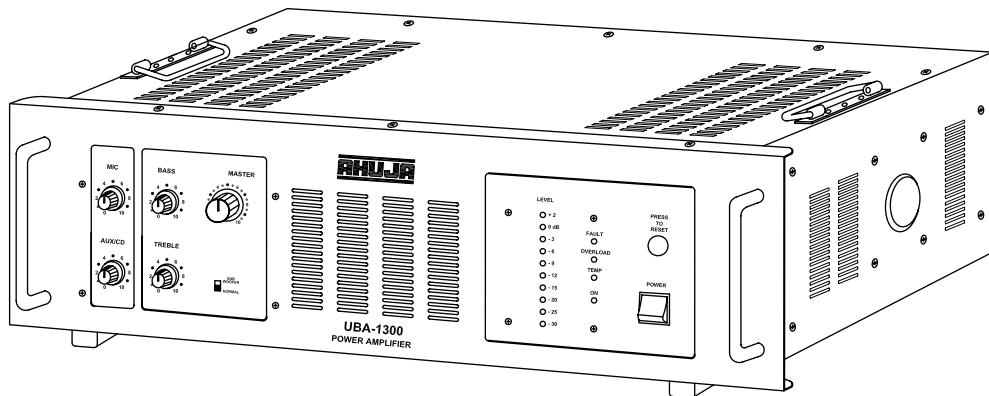


## UBA-1300



- ◆ Thank you for purchasing the AHUJA PA Amplifier.
- ◆ Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance from your new AHUJA PA Amplifier.
- ◆ Please retain this manual for future reference.

## • Safety Instructions

**Read the Instructions:** Please read all the instructions in this section carefully before installation or use of the product. All the safety instructions must be followed.

**Retain the Instructions:** Please retain this Instruction Manual for future reference.



This symbol, wherever it appears, alerts you to the presence of uninsulated hazardous voltage that may be sufficient to constitute a risk of electric shock. External wiring to any terminal marked with this symbol must be done by a trained and instructed person only.



This symbol, wherever it appears adjacent to a component, alerts you that the concerned component can only be replaced by another of the exact same specifications.

### WARNING

- To reduce the risk of electric shock, do not remove the top cover. No user serviceable parts inside. Refer all servicing to qualified personnel only.
- Before replacing any fuse, make sure the set is switched off and disconnected from the AC mains or any other power source. Replace a fuse only with another of exactly same specification.

### CAUTIONS

**Water & Moisture:** To reduce the risk of fire or electrical shock, do not expose this set to rain or moisture. Do not use this set near water or in a wet location. Do not keep any object filled with liquid, such as a vase, on top of this set. Do not insert or remove the AC mains plug with wet hands.

**Power Source:** The voltage & frequency of the AC mains supply, to which this set can be connected, is marked on the rear panel of the set. Do not connect this set to any power source other than those specified on the rear panel.

**Power Cord Protection:** Do not cut, kink, damage or modify the AC power cord supplied with this set. Keep the AC power cord away from heaters and harmful chemicals. Do not keep any heavy object on the power cord.

**Operation on Generator:** When operating this set on a generator, make sure the set is switched off till the generator voltage has stabilized.

**Ventilation:** This set should be situated so that its location or position does not interfere with its proper ventilation. Do not cover the ventilation holes / slots. Do not insert or drop anything into the ventilation holes / slots.

**Stability:** This set must be kept in a stable and flat horizontal position, and never in a tilted position. Do not place this set on an unstable stand, tripod, bracket or mount. Do not use attachments which are not supplied or explicitly recommended by the manufacturer.

**Cover Strip:** The cover strip of the output terminal strip, must be replaced after making connections. Failure to do so may result in exposure to hazardous voltages.

**Earthing:** This set must be earthed properly before use. A wire from the Earth terminal on the rear panel must be connected to electrical earth.

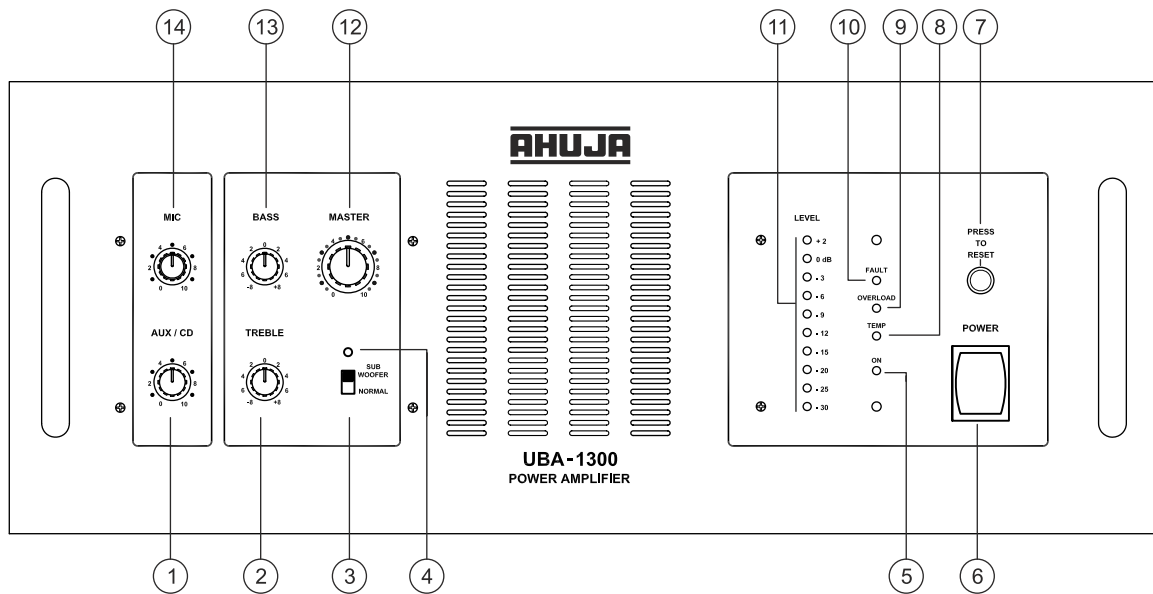
**Cleaning:** Disconnect this equipment from the AC mains before cleaning. Clean with a damp cloth, but do not allow any liquid to enter the set. Do not clean with liquids or aerosols.

**Cooling:** This is a fan cooled set. Keep in such a place that flow of air through the fan openings is not obstructed. DO NOT insert anything through the fan openings.

## • Features/General Description of Product

- Designed for use in a wide variety of PA applications and DJ performances.
- UBA-1300 is a 1300 Watts amplifier which can be connected to various input sources like a Microphone, PA Mixer, CD player, DJ Mixer, Cassette player, Keyboard etc.
- The amplifier has active Bass and Treble controls which provide precise tonal setting for the programme material.
- Sub ON / OFF switch to use amplifier for driving a subwoofer without any external crossover. This switch should be kept in ON position when driving a subwoofer (keep the switch in NORMAL position when driving a full range speaker system).
- Line Input and Line Output have been provided to enable interconnections with other power amplifiers.
- Circuit Protector Device has been provided which safeguards the amplifier against overload and short circuit.
- The amplifier is protected for variations in AC supply due to Genset / Mains fluctuation up-to 280V.
- Indicator LEDs for Power, Signal, Temp, Overload and Fault conditions have been provided.
- Ease of operation, combined with service accessibility has been optimized in the design.

## • Front Panel Controls & Features



### 1. AUX / CD Volume Control

2. **TREBLE Control:** For attenuating or boosting the high frequency signal level with a center frequency of 10kHz.

3. **SUBWOOFER Switch:** When this switch is ON, it cuts the MID and HF band by up-to 24dB.

Keep this switch in ON position when driving only a subwoofer (without any external crossover). Keep this switch in NORMAL position when driving a full range speaker system.

4. **LED Glow Indicator:** This glows when the amplifier is switched for sub woofer applications.

5. **POWER LED:** The glowing of this red LED indicates that the amplifier is switched ON.

6. **POWER Switch:** Push the top part of the knob to switch the amplifier ON. Push the bottom part of the knob to switch the amplifier OFF.

7. **RESET Button:** This button pops out when the circuit protector trips. Rectify the cause and press the RESET button for resetting to normal operation of the amplifier.

8. **TEMPERATURE LED:** The glowing of this yellow LED indicates excessive temperature of the output devices. The protection circuit then mutes the input

signals. The amplifier will remain at mute status, till the amplifier cools down to normal temperature.

9. **OVERLOAD LED:** The glowing of this red LED indicates that the circuit protector has tripped. The AC mains supply to the amplifier is cut-off till the fault is rectified and the reset button is pressed.

10. **FAULT LED:** The glowing of this red LED indicates that some fault has occurred in the amplifier and either of the DC fuses has blown. The protection circuit then mutes the input signals. The amplifier will remain at mute status till the fault is rectified & blown fuse replaced.

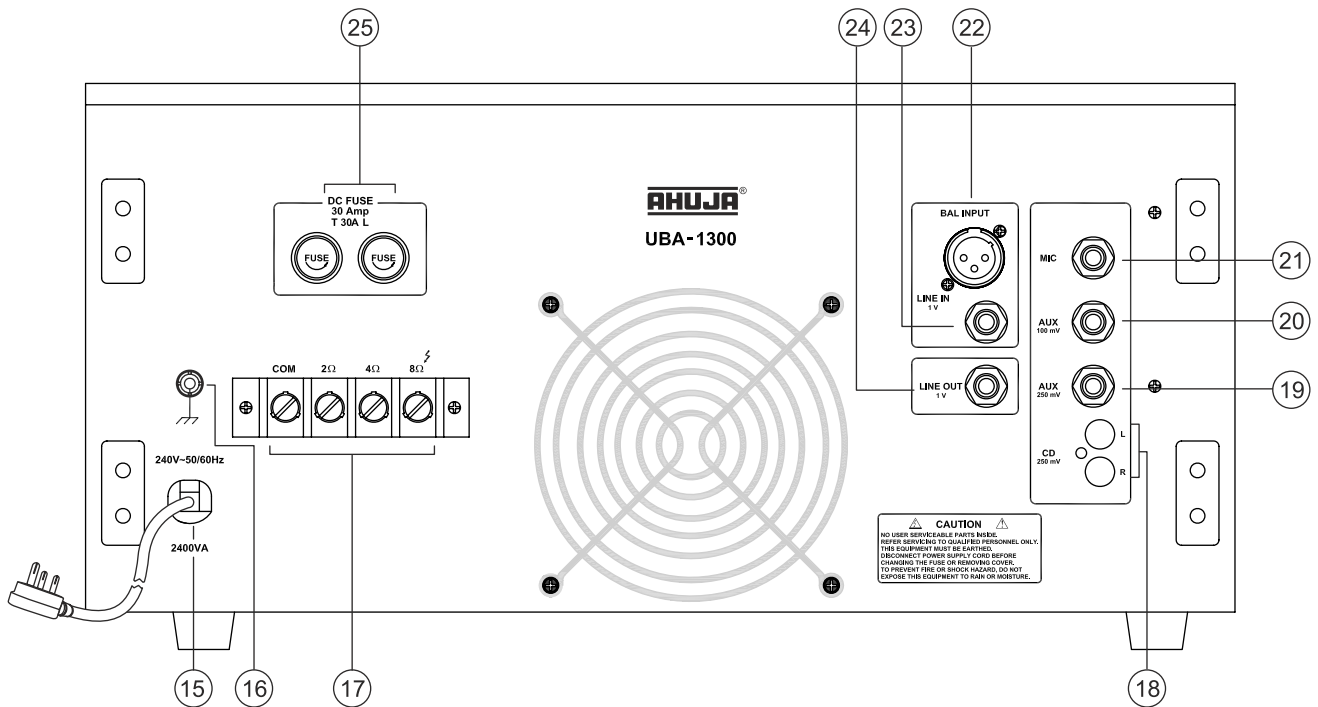
9. **LED Array:** This indicates the output level of the amplifier. Acceptable output levels are indicated by occasional flickering of the 0dB LED. If this LED glows continuously then it is advisable to reduce the input signal level either from the signal source or the amplifier volume controls.

12. **MASTER Volume Control:** For adjusting of the overall volume level of the amplifier.

13. **BASS Control:** For attenuating or boosting the low frequency signal level with a centre frequency of 100Hz.

14. **MIC Volume Control**

## • Rear Panel Controls & Features



### 15. 3 Core AC Mains Cable with Plug

### 16. Earth Terminal

### 17. SPEAKER Terminal Block (2Ω, 4Ω & 8Ω)

For connecting low impedance speakers.

### 18. CD Input RCA Sockets

For connecting stereo inputs such as a CD player, DJ Mixer etc.

CD Input should be used only when the Aux Input is not connected.

### 19. AUX Input Jack Socket (250mV)

For accepting an unbalanced signal from an auxiliary source of higher output (mixer, CD Player etc.)

### 20. AUX Input Jack Socket (100mV)

For accepting an unbalanced signal from an auxiliary source like a Tuner, Cassette Player, Echo Mixer or Audio Mixing Console etc.

Aux Input should be used only when the CD Input is not connected.

### 21. MIC Input Jack Socket

For accepting unbalanced signal from a low impedance microphone.

### 22. Line Input XLR

This is a balanced line input socket to connect an external mixer to enhance nos. of inputs.

### 23. LINE Input Jack Socket

For connecting an external Mixer to enhance the number of inputs. Line input XLR (22) and Line input socket (23) are connected in parallel.

### 24. LINE Output Jack Socket

For connecting to a booster amplifier to obtain combined higher power output.

### 25. DC Fuses Rating 30 Amp. 250V ( T 30A L)

These protect the amplifier from any excessive current flow.

### Caution

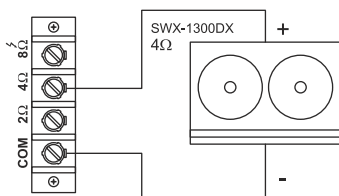
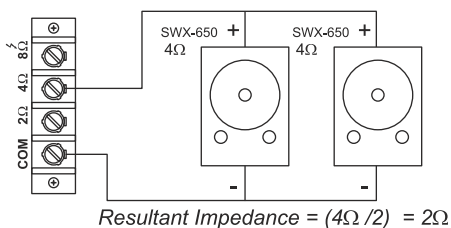
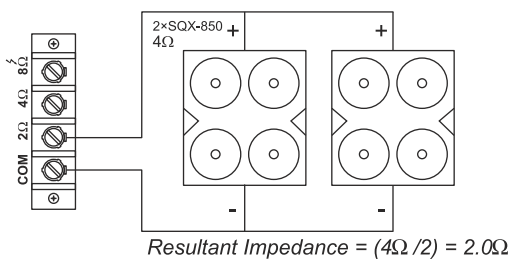
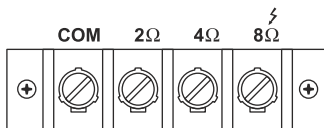
- The equipment must be earthed properly before operating it to avoid electric shock. A wire from the Earth Terminal must be connected to electrical earth for safe operation.

## • Interconnections

- The amplifier can be placed as a tabletop unit. The amplifier uses an efficient forced cooling arrangement. Therefore, the amplifier should be placed such that the front and rear ventilation slits are not obstructed. Do not insert anything into the fan openings.
- The amplifier must be powered through an AC earthed mains outlet.
- All connections must only be carried out or changed with the amplifier switched OFF.
- To avoid loud switching noise, always switch ON the power amplifier after all other units of the audio system have been switched ON. After operation, switch the power amplifier OFF first and then the other units.
- While connecting the input select proper input socket i.e., MIC AUX1, AUX2 or Line input as per source output and connect the speaker system of proper wattage and impedance to the respective impedance taps of amplifier.

## • Speaker Connection Guidelines

**UBA-1300 is a high-powered amplifier. Therefore it is very important that correct loudspeaker connections are made to avoid damage to the amplifier or speakers.**



### Low Impedance Speaker Connections

- Box type Speakers can be directly connected to Com-2Ω / 4Ω / 8Ω Terminal Strip.

### Connecting Two SQX-850 Speakers (or two SPX-800 speakers)

The two SQX-850 speakers (each speaker has 4Ω impedance) should be wired in parallel as shown in figure. The resulting impedance of the speaker system is 2Ω. Thus they should be connected to the 2Ω tap of the amplifier.

NOTE: The two can be in series also, to connect on 8Ω tap.

### Connecting Two SWX-650 Speakers

The two SWX-650 speakers (each speaker has 8Ω impedance) should be wired in parallel as shown in figure. The resulting impedance of the speaker system is 4Ω. Thus they should be connected to the 4Ω tap of the amplifier.

NOTE: These can be in series also, to connect on 16Ω tap.

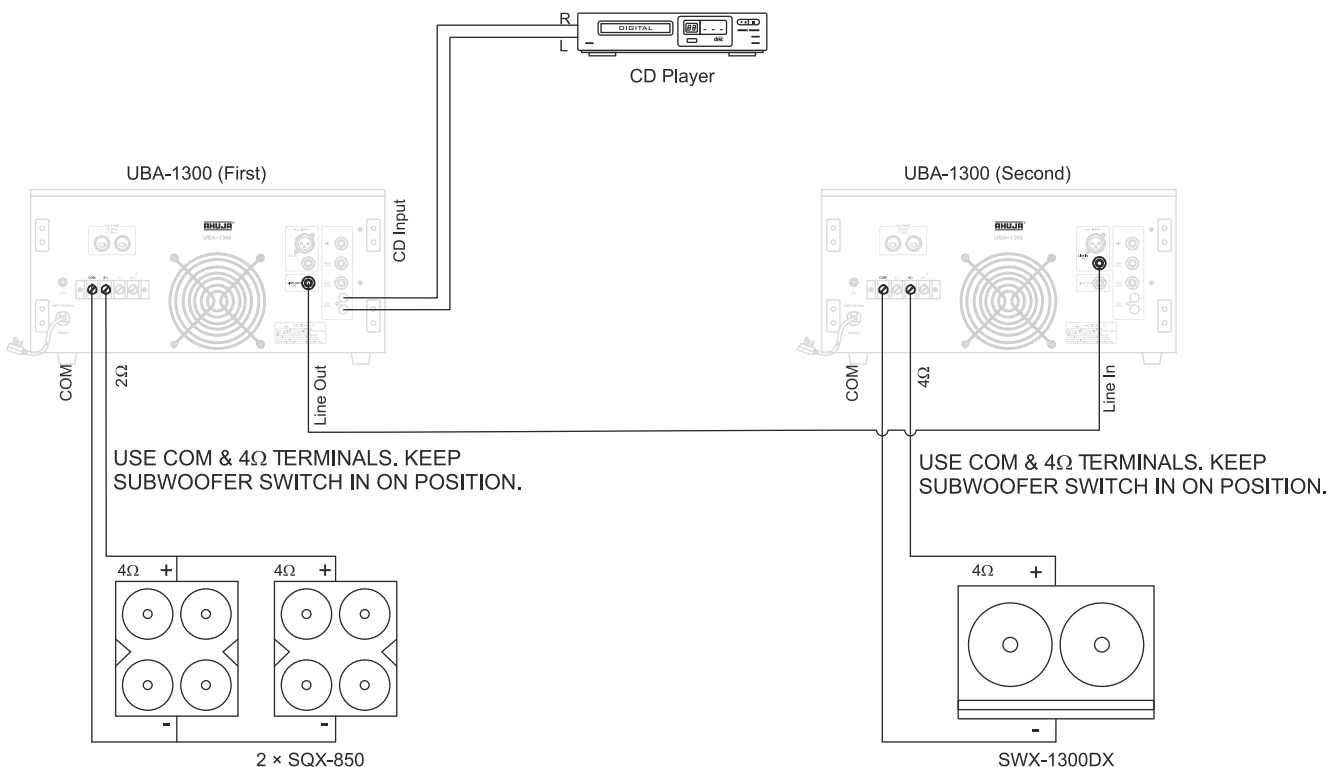
### Connecting One SWX-1300DX Subwoofer

One SWX-1300DX subwoofer system has an impedance of 4Ω. Thus it should be connected to the 4Ω tap of the amplifier as shown in the figure.

**• IMPORTANT** Speakers should be connected only to either COM-2Ω or COM-4Ω or COM-8Ω terminals as illustrated above but never to more than one set of terminals.

## Connecting Two UBA-1300 To Make A 2600W Mono System

1. Connect the Output of the CD Player to the CD Input of the first UBA-1300 using a patch cord with RCA plugs at both ends.
  2. Connect the Line Out of the first UBA-1300 to the Line In of the second UBA-1300 using a patch cord with ¼" phone plugs at both ends.
  3. Loudspeaker connections to both the amplifiers should be done independently. First amplifier is connected to a speaker stack which comprises of two SPX-800 and second is connected to SWX-1300DX.
  4. The two SPX-800 speakers in stack will be wired together in parallel (resulting impedance is 2Ω) and connected to the COM and 2Ω tap of first UBA-1300. Second UBA-1300 is connected with SWX-1300DX at 4Ω tap.
- UBA-1300 has a built-in low pass filter specially for connecting subwoofer. Hence, an external crossover is not necessary. Keep the subwoofer switch of the second UBA-1300 (to which subwoofer is connected) is ON position.
6. Finally, when operating the system, any adjustment in the overall tonal quality of the sound can be made through the Bass and Treble of the first UBA-1300 only.
  7. This MONO system is capable of delivering output power of 2600W at 10%THD which is suitable for various indoor as well as outdoor DJ and other applications.



## • Specifications

|   |   |
|---|---|
| <b>MODEL</b>                            | <b>UBA-1300</b>   |
| <b>Power Output</b>                     | 1650W RMS Max.<br>1300W RMS at 10%THD<br>1150W RMS at 5% THD<br>1050W RMS at 2% THD   |
| <b>Output Regulation</b>                | ≤ 2dB no load to full load at 1kHz  |
| <b>Input Channels</b>                   | 1 × Mic 1.5mV / 4.7kΩ<br>(Mic source impedance 50Ω to 1kΩ)<br>1 × Aux 100mV / 470kΩ<br>1 × Aux 250mV/20kΩ<br>1 × CD 250mV / 20kΩ<br>Line Input 1V / 10k unbalance 20k balance |
| <b>Frequency Response</b>               | 50Hz–18,000Hz ±3dB  |
| <b>Signal to Noise Ratio</b>            | 60dB  |
| <b>Tone Controls</b>                    | Bass (100Hz) : ± 8dB<br>Treble (10kHz) : ± 8dB  |
| <b>Line Output</b>                      | 1V/1kΩ  |
| <b>Output Taps for Speaker Matching</b> | 2Ω, 4Ω & 8Ω   |
| <b>Power Supply</b>                     | AC: 220-240V 50/60Hz  |
| <b>Protections</b>                      | AC: Circuit Protector 10Amp.; ± DC: 2 x 30Amp. (T 30A L)<br>Protected against high AC mains voltage, overload and temperature   |
| <b>AC Power Consumption</b>             | 2400 VA   |
| <b>Dimensions</b>                       | W500 × H210 × D577 mm   |
| <b>Weight</b>                           | 49.0kg approx.  |

Design and Specifications are subject to change without notice owing to continuous product up-gradation. Technical specifications are subject to production tolerances.

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**TRUSOUND PVT. LTD.** • C-89, Sector IV, Noida, Gautam Budh Nagar-201 301 (UP)

Regd. Office : 125E, Okhla Industrial Estate, New Delhi-110 020

Tel.: +91-120-4665665 Fax : +91-120-4665621

E-mail: trusoundsupport@airtelmail.in

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