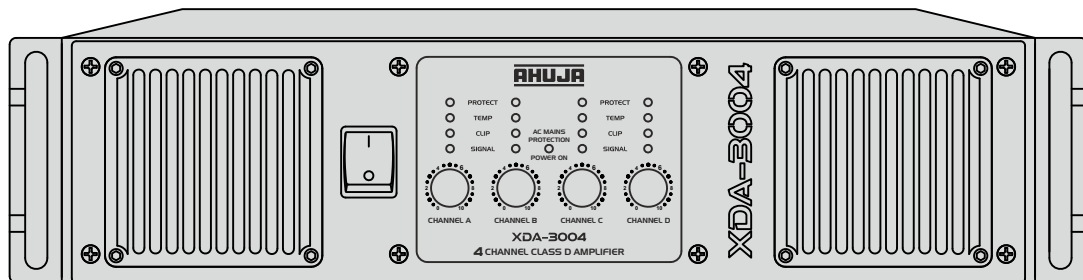


# AHUJA®

## Four Channel Class D Amplifier

4 x 1200W RMS

# XDA-3004



- ◆ Thank you for purchasing the AHUJA Direct Coupled Class D 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 Direct Coupled Class D 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.

**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 and external battery before cleaning. Clean with a damp cloth, but do not allow any liquid to enter the set. Do not clean with liquids or aerosols.

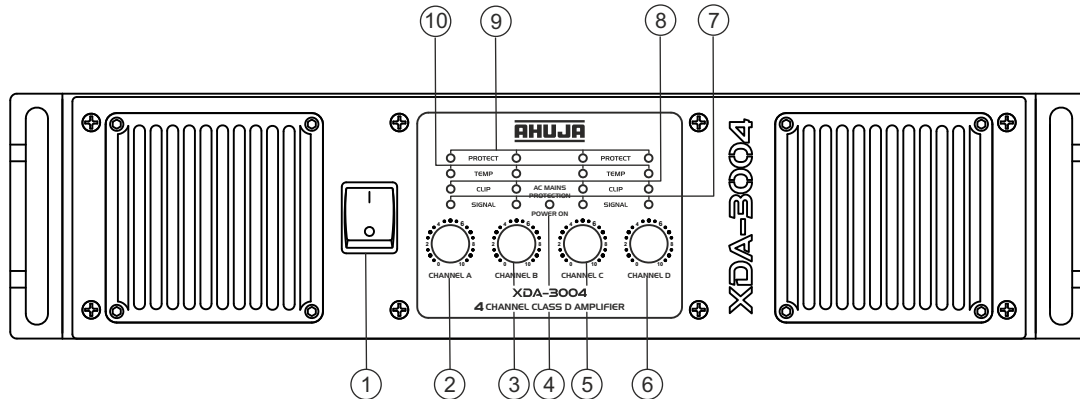
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## • Features/General Description of Product

- Rugged 19" rack mountable chassis.
- Heavy duty high current toroidal transformer which provides excellent regulation and minimises hum & noise.
- Low distortion and high damping factor for excellent sound quality.
- Extensive protection circuit for High Temperature (output devices and transformer), Overload, Over voltage, DC, RFI and Output short circuit. The amplifier is protected for variations in AC supply (due to Genset / AC Mains fluctuation) up to 265V.
- Indicator LEDs for Signal, Clip, Temperature (output devices and transformer), Protect mode, Power ON/AC mains protection.
- Output Connectors (Speakon 4-way) for each channel.
- Built in limiter circuit, which protects the amplifier and speaker from being over driven because of high input level signal.
- Balanced / Unbalanced input signal through parallel XLR and 6.3mm (¼") stereo phone jack for each channels.
- Slide switch selection of All / Dual / Individual Mode provided on rear panel.
- Switchable ground lift to break the unwanted ground loops.
- Limiter On/Off switch.
- Slide switch to select the input sensitivity between 0.775V & 1.23V.

## • Front Panel Controls & Features



### 1. **POWER Switch**

Push the top part of the knob (marked I) to switch the amplifier ON. Push the bottom part of the knob (marked 0) to switch the amplifier OFF.

### 2. **Volume Control for Channel A**

It is used in all, dual and individual mode, for adjusting the volume level of channel A.

### 3. **Volume Control for Channel B**

It is used in all, dual and individual mode, for adjusting the volume level of channel B.

### 4. **Power LED POWER ON/AC MAINS PROTECTION**

This LED glows green when the amplifier is switched ON. This LED will glow orange if amplifier is in fault conditioning against over voltage cut off and DC fuse blown OFF.

### 5. **Volume Control for Channel C**

It is used in all, dual and individual mode, for adjusting the volume level of channel C.

### 6. **Volume Control for Channel D**

It is used in all, dual and individual mode, for adjusting the volume level of channel D.

### 7. **Signal Indicator LEDs for Channel A, B, C and D**

Indicate the presence of signal in channel A, B, C and D respectively.

### 8. **CLIP Level Indicator LEDs for Channel A, B, C and D**

One separate red LED provided for each of the four channel. Continuous glow of LEDs indicates that

there is excessive signal being fed to the input of the amplifier resulting in clipped and distorted output levels. In such cases, it is advisable to reduce the input signal or reduce the volume setting. Otherwise, the amplifier may go into protect mode and signal will mute.

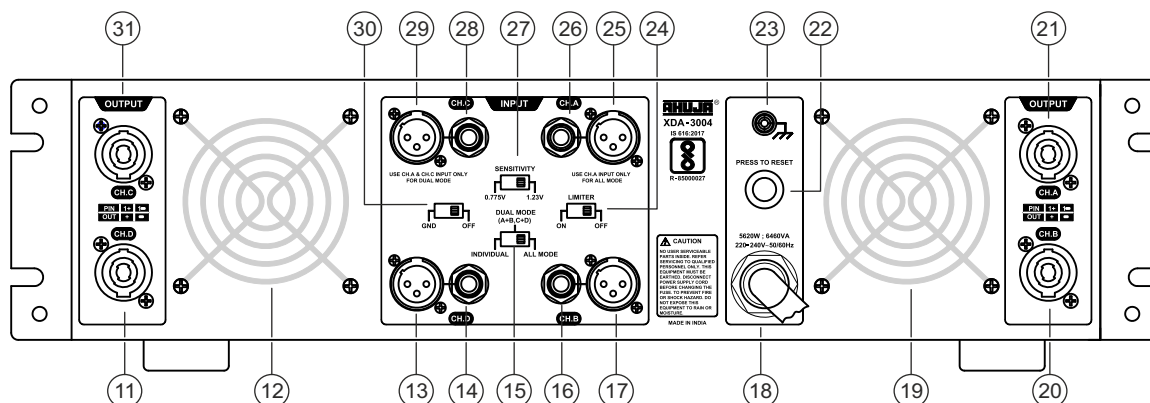
### 9. **Protect Indicator LEDs for Channel A, B, C and D**

Separate orange LED provided for each of the four channels A, B, C & D. These LED's glow when the excessive temperature of the output devices or transformer or output wire/speaker is shorted or the output is overloaded or the input is too high or DC voltage is present on the speaker output. In any of these conditions the amplifier goes to protect mode. To reset the amplifier, switch OFF the amplifier, turn volume control to zero, correct the fault, and switch ON the amplifier after 5-10 seconds. Increase the volume control slowly to the desired output below Clip level.

### 10. **Temperature Indicator LEDs for Channel A, B, C and D**

Separate yellow LEDs provided for each of the four channels A, B, C & D. Glowing of these LEDs indicates excessive temperature of the output devices or transformer. The special circuitry then mutes the input signals. The amplifier will remain at mute status, till the devices cool down to normal temperature. Switch OFF the amplifier to cool down and then switch ON to continue.

## • Rear Panel Controls & Features



### 11. Speakon Connector for Channel D Output

Amplified signal is available at Pin 1+ & 1- of speakon connector. The output speakon connectors should be wired as per fig. 3 (*Output Connection for All / Dual / Individual mode*).

### 12. Fan Grill

Protective grill for fan. Do not insert anything into this opening.

### 13. XLR INPUT for Channel D:

This female XLR connector accepts the balanced / unbalanced signals to drive the channel D in individual mode. Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).

### 14. 6.3 mm (1/4") Jack Input for Channel D:

The stereo jack connector accepts the balanced / unbalanced signals to drive the channel D when used in individual mode. Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).

### 15. ALL / DUAL / INDIVIDUAL Mode Selector Switch:

This slide switch is used to operate the amplifier in all / dual or individual mode.

### 16. 6.3 mm (1/4") Jack Input for Channel B:

The stereo jack connector accepts the balanced / unbalanced signals to drive the channel B when used in individual mode. Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).

### 17. XLR INPUT for Channel B:

This female XLR connector accepts the balanced / unbalanced signals to drive the channel B in individual mode. Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).

### 18. 3 Core AC Mains Cable with Plug

### 19. Fan Grill

Protective grill for fan. Do not insert anything into this opening.

### 20. Speakon Connector for Channel B Output

Amplified signal is available at Pin 1+ & 1- of speakon connector. The output speakon connectors should be wired as per fig. 3 (*Output Connection for All / Dual / Individual Mode*).

### 21. Speakon Connector for Channel A Output

Amplified signal is available at Pin 1+ & 1- of speakon connector. The output speakon connectors should be wired as per fig. 3 (*Output Connection for All / Dual / Individual Mode*).

### 22. AC Mains ckt Protector (Rating 20 AMP):

This protects the amplifier from any excessive current flow and trips when over loaded or in fault conditions.

### 23. Earth Terminal: For earthing the chassis.

### 24. LIMITER ON/OFF Switch:

Limiter is active when switch is at ON position. It is advised to use the Limiter ON in normal operations. Whenever it is selected for limiter OFF, drive the amplifier for controlled output to protect the speakers from failure.

### 25. XLR INPUT for Channel A:

This female XLR connector accepts the balanced / unbalanced signals to drive the channel A in individual mode and channel A & B if used in dual mode, and channel A, B, C & D if used in all mode operation. Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).

### 26. 6.3 mm (1/4") Jack Input for Channel A:

The stereo jack connector accepts the balanced / unbalanced signals to drive the channel A when used in individual mode and channel A & B when used in dual mode and channel A, B, C & D if used in all mode operation. Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).

## • Rear Panel Controls & Features

### 27. Sensitivity Selector Switch:

Slide switch to select the input sensitivity between 0.775V & 1.23V. It is suggested to use 1.23V sensitivity if programme signal is fed from a mixer.

### 28. 6.3 mm (1/4") Jack Input for Channel C:

The stereo jack connector accepts the balanced / unbalanced signals to drive the channel C when used in individual mode and channel C & D when used in dual mode operation. Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).

### 29. XLR INPUT for Channel C:

This female XLR connector accepts the balanced / unbalanced signals to drive the channel C in individual mode and channel C & D if used in dual

mode operation. Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).

### 30. Ground Lift:

Ground loop form when multiple sets are used, which can cause Hum. Using this switch can improve hum & noise by breaking unwanted ground loops.

### 31. Speakon Connector for Channel C Output:

Amplified signal is available at Pin 1+ & 1- of speakon connector. The output speakon connectors should be wired as per fig. 3 (*Output Connection for (All/Dual/Individual Mode)*).

## • Limiter Setup

- In this series, limiter is active in both conditions i.e. ON and OFF. ON/OFF is two different modes of limiter setting.
- **LIMITER ON:** In this mode, maximum power output of the amplifier will be limited to unclipped level. Even the Input signal higher than the given sensitivity, the power output of the Amplifier will be unclipped. Due to which the sound quality will be pleasant. Therefore, it is recommended to use this limiter setting for most applications except subwoofer usage.
- **LIMITER OFF:** In this mode, maximum power output of the Amplifier will be limited to a state where output is available at just clipped level. This mode is suitable for subwoofer applications. In this mode, limiter is still active even if the input is much higher than rated sensitivity. In this condition, output will be same as defined.

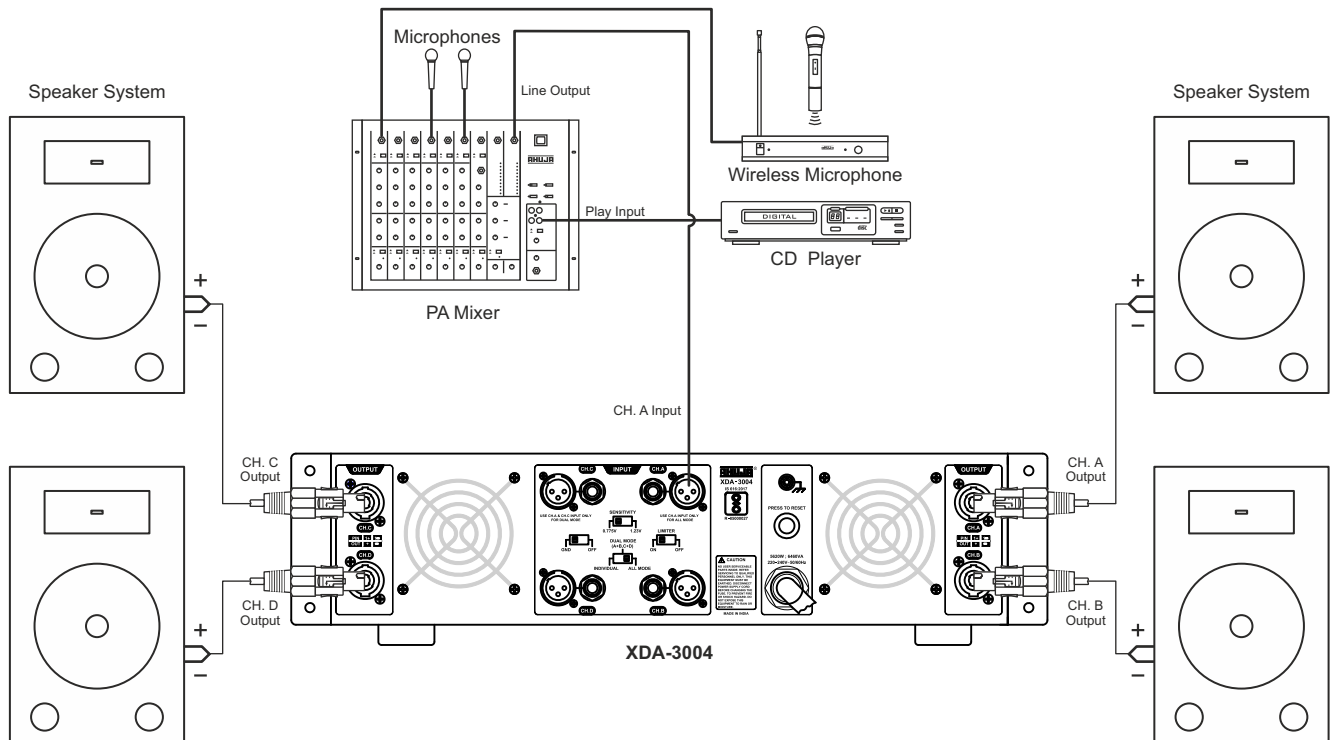


## Tips for Safe Operation

- The amplifier must be connected to an AC earthed mains outlet that can deliver the maximum power required. The use of extension cables or adaptors should be avoided as this can jeopardize correct current delivery to the amplifier.
- All connections must only be carried out or changed with the amplifier switched OFF & the AC mains supply disconnected.
- Ensure proper impedance matching. For continuous safe operation, resultant impedance of the speakers **is recommended as 4 or 8 ohms** in all / dual / individual modes.
- For 4 ohm applications, it is recommended to use speakon connectors only.
- Use of cable 40 / 36 or thicker is recommended to prevent power losses in speaker cables.
- The level of input signal should not exceed the specified input sensitivities. Excessive input signal levels result in over driving of input circuit which leads to saturated / distorted output at speaker terminals.
- Do not operate the amplifier with continuously glowing CLIP LED. The respective volume control of the channels must be adjusted so that the output level does not clip and distort.
- Do not obstruct the front or rear of the amplifier for necessary intake of air. This is a fan cooled amplifier.

## • Setup & Operations

### All Mode Configuration

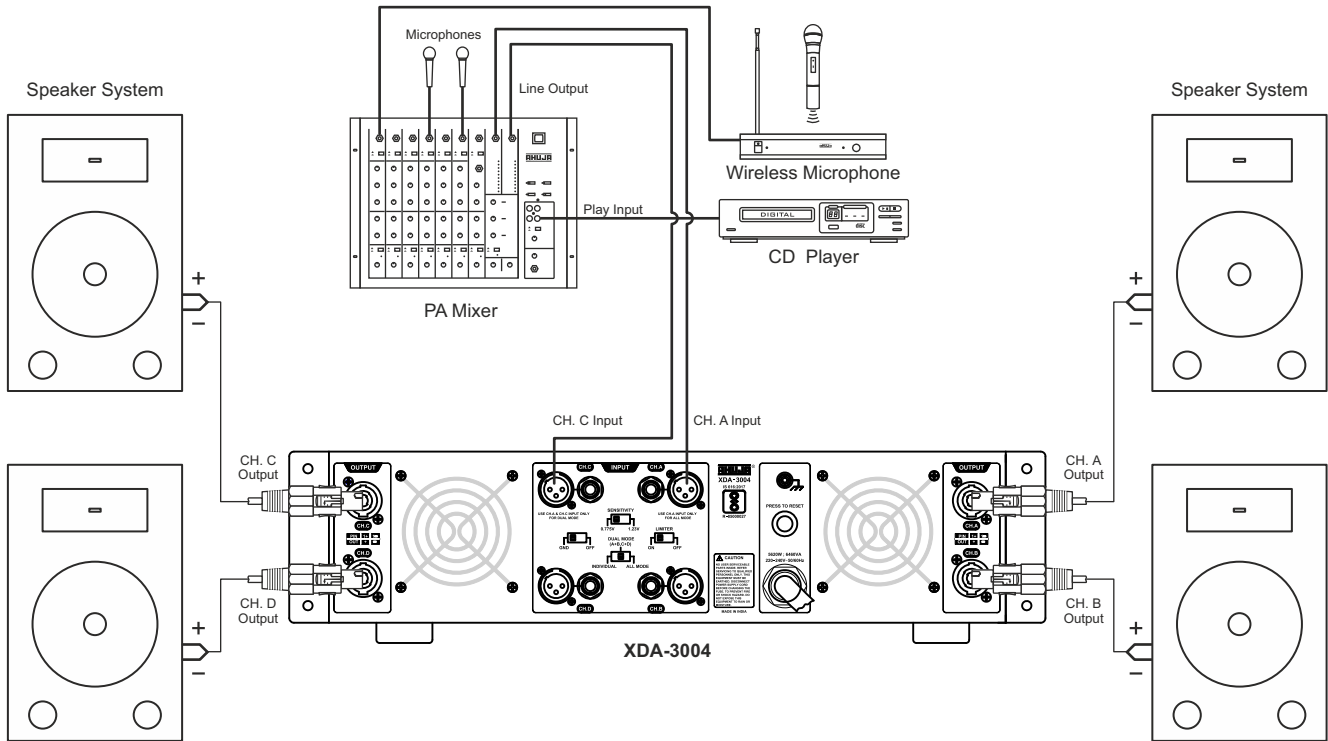


When operating in **ALL** mode, the signal source should be connected to the balanced / unbalanced input of **channel A only**. All four channels provide similar output to their respective loudspeakers. Each channel can separately drive loudspeaker loads of 8/4 ohms.

- Connect the line output of a mixer to channel A input of the amplifier. Input can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).
- Connect a speaker system on the output terminal of each channel. It is recommended to use the speakon connectors and wire these as per fig. 3 (*Output Connections for All/Dual/Individual Mode*).
- To select ALL mode, keep the slide switch, provided at rear panel, in ALL position.
- The desired output levels of the A, B, C & D channels are adjustable by individual control of channel A, B, C & D respectively.
- The signal indicator LEDs glow to indicate the presence of signal.
- Operate the amplifier below the onset of clip LED glow. Continuous clip LED glow may push amplifier into protect mode.



## Dual Mode Configuration

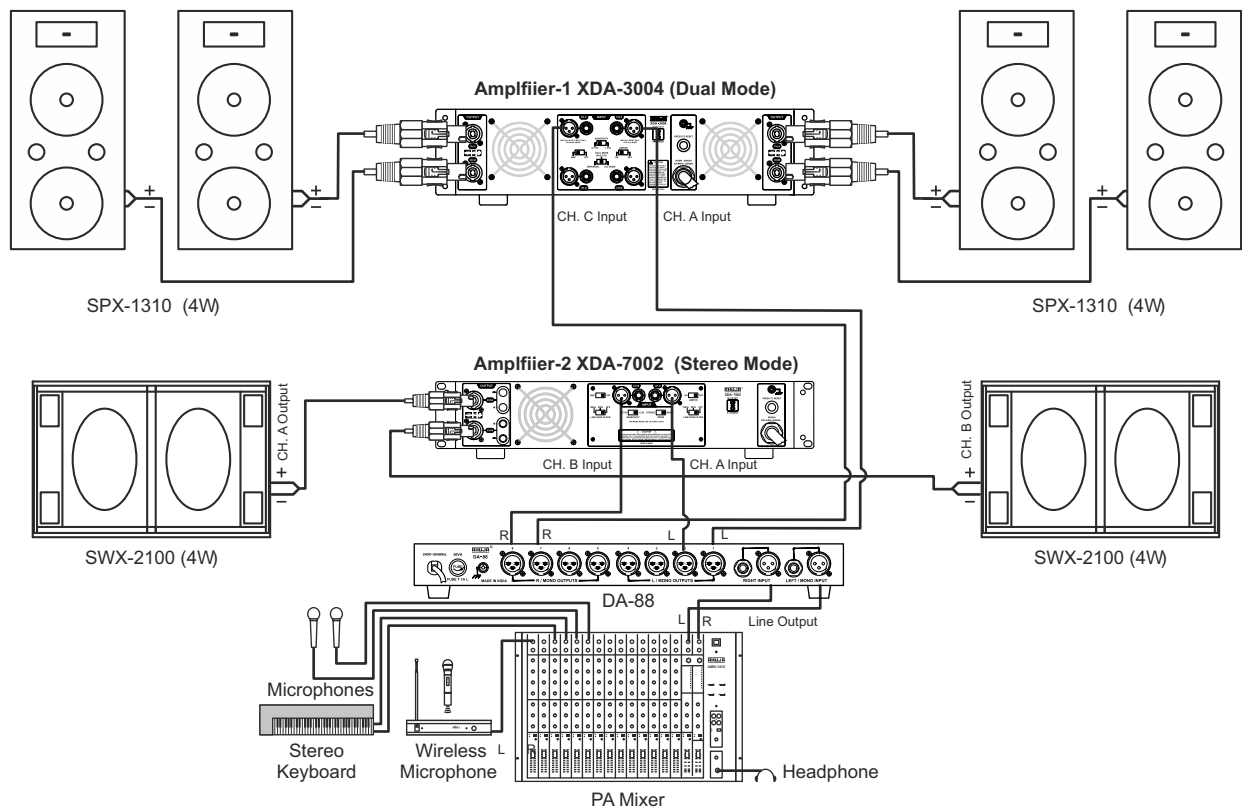


When operating in **DUAL** mode, the signal source should be connected to the balance/unbalance inputs of **Channel A & Channel C** only. Channel A & B are fully independent from Channel C & D. The balanced / unbalanced inputs can be connected either to a stereo signal source or two independent mono signal sources. Each channel can separately drive loudspeaker loads of 8/4 ohms.

- Connect the Left and Right outputs of a mixer to channel A and C inputs of the amplifier respectively. Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).
- Connect a speaker system on the output terminal of each channel. It is recommended to use the speakon connectors and wire these as per fig. 3 (*Output Connections for All/Dual/Individual Mode*).
- To select DUAL mode, keep the slide switch, provided at rear panel, in DUAL position.
- Adjust the individual volume controls of each channel on the front panel to obtain the desired output level.
- The signal indicator LEDs glow to indicate the presence of signal at the output terminals.
- Adjust the input signal level below the threshold of clip LED glow.

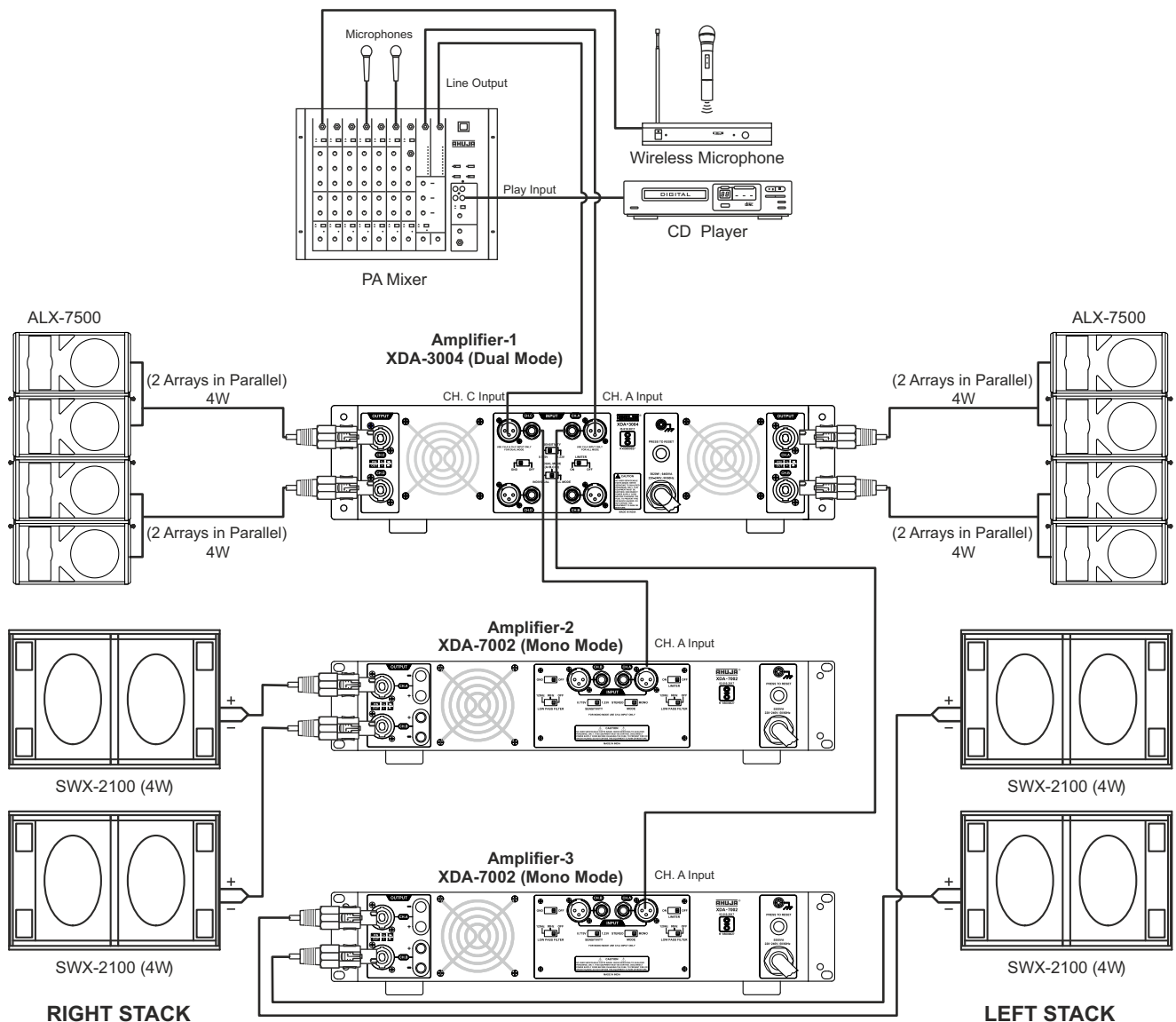
## • Typical Applications

### Dual Mode Top Plus Subwoofers mix (XDA-3004 with XDA-7002)



- Connect the Left and Right outputs of the Audio mixing console to the respective inputs of the Audio Splitter (DA-88).
  - Connect the Left and Right output of the DA-88 to the respective input channels A & C of amplifier 1 (XDA-3004). Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).
  - One number of full range loudspeaker system SPX-1210 can be connected to each of the output channels of amplifier 1. The output speakon connectors should be wired as per fig. 3 (*Output Connections for All/Dual/Individual Mode*).
  - Amplifier 1 will be used in DUAL mode. Keep the slide switch of amplifier 1 in DUAL mode position.
  - Use the amplifier 2 (XDA-7002) in subwoofer mode set the internal filter of individual channel A & B at desired frequency (80Hz or 120Hz).
  - Feed the output signal of the DA-88 to the amplifier 2 (XDA-7002). Similarly feed the Left & Right output signal of the DA-88 to the channel A & B input of amplifier 2 (XDA-7002). Inputs can be wired as per fig. 1 & 2 (*Input Connections for Balanced and Unbalanced Mode*).
  - One no. each of high powered subwoofer system
- SWX-2100 can be connected to the channel A & B outputs of amplifiers 2 respectively. Output speakon connectors to be wired as per fig. 4 (*Output Connections for Stereo Mode*).
- The speakon is the preferred choice for connections, but if the output connections are to be made on binding posts for stereo mode applications, then (+) of the speaker should be wired on (+) (Red) terminal of channel A output and (-) of the speaker should be wired on (-) (Black) terminal of the channel A output.
  - Amplifier 2 will be used in stereo mode. Keep the slide switch of amplifier 2 in STEREO position to activate stereo mode.
  - Finally adjust the volume control of channel A, B, C & D in amplifier 1 (XDA-3004) to control the level of their respective SPX-1210.
  - Also, adjust the volume control of channel A & B in amplifier 2 (XDA-7002) to control the levels of their respective SWX-2100.
  - Operate the amplifier in such a way the clip LED should not blink continuously.
  - Continuously clip LED glow may bring amplifier into protect mode.

## Dual Mode Line Array plus Subwoofer Mix (XDA-3004 with XDA-7002)



- Connect the Left output of the Audio mixing console to the channel A input of Amplifier-1 (XDA-3004).
- Connect the 6.3mm jack input of channel A in Amplifier-1 to the XLR input channel A of Amplifier-3 (XDA-7002).
- The inputs can be wired as per fig. 1 & 2 (*Input connections for Balanced and Unbalanced Mode*).
- For connecting 4 nos. of Line Array cabinets, connect 2 nos. in parallel on outputs A and connect another 2 nos. in parallel on output B of Amplifier-1 (XDA-3004). The resultant impedance of each group of two Line Arrays is 4 ohm.
- Connect SWX-2100 on each channel output A & B of Amplifier-3 (XDA-7002).
- Switch the Stereo/Mono switch of Amplifier-3 at Mono mode.
- For Amplifier-3 keep the Low Pass filter switch in either 80 Hz or 120 Hz positions.
- This installation of two Subwoofers SWX-2100 and four Line Arrays connected to 2 channel (Channel A & B) of XDA-3004, is LEFT STACK of Line Array.

## • Typical Applications

- Connect the Right output of the Audio mixing console to the channel C input of Amplifier-1 (XDA-3004).
- Connect the 6.3mm jack input of channel C in Amplifier-1 to the XLR input channel A of Amplifier-2 (XDA-7002).
- The inputs can be wired as per fig. 1 & 2 (*Input connections for Balanced and Unbalanced Mode*).
- For connecting 4 nos. of Line Array cabinets, connect 2 nos. in parallel on outputs C and connect another 2 nos. in parallel on output D of Amplifier-1 (XDA-3004). The resultant impedance of each group of two Line Arrays is 4 ohm.
- Connect SWX-2100 on each channel output A & B of Amplifier-2 (XDA-7002).
- Switch the Stereo/Mono switch of Amplifier-2 at Mono mode.
- For Amplifier-2 keep the Low Pass filter switch in either 80 Hz or 120 Hz positions.
- This installation of two Subwoofers SWX-2100 and four Line Arrays connected to 2 channel (Channel C & D) of XDA-3004, is RIGHT STACK of Line Array.
- Finally adjustment of output levels will be by their respectively volume controls of each channel of Amplifier-1, 2 and 3.
- Any adjustments in the tonal quality of the sound, if required, can be made from the audio mixing console.
- Operate each Amplifier below the threshold of clip LED glow.

## • Protections & Installations

### Thermal Protections

#### Output Devices/Transformer

In case of excessive heating of the output devices or transformer, the thermal protection circuits will bring the audio signal to mute status. Onset of thermal protection circuit is indicated by glowing of TEMP LEDs (yellow) in each channel. To restore normal operating conditions, it is recommended to switch off the amplifier for cooling and then switch ON again after cooling and checking the speaker connections.

#### DC, RFI Protection

Inbuilt circuits are provided to protect the loudspeakers from any offset DC voltages. Also suppression filters at primary and secondary power supplies have been inbuilt, to reduce some RF interference.

### Overload / Short Circuit Protection

Protection circuit is provided in both channels for the safety of output devices in case of overload or mismatch of impedances at the outputs. This circuit brings the input signals to mute condition, and set will be in protect mode. To reset, switch OFF the amplifier for few seconds, remove the short circuit or overload and then switch ON for normal operation.

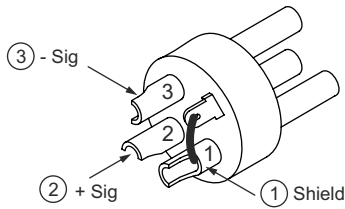
#### Fuses/CIRCUIT PROTECTOR

- a. 1 × 20A Circuit Protector for AC mains.
- b. 8 × 12A (T 12A L) fuses for +ve and -ve DC supply

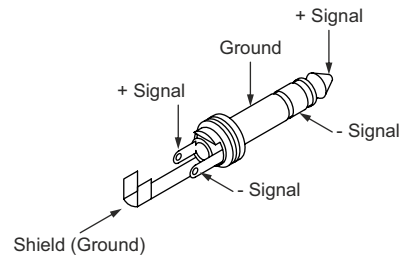
## • Input - Output Connections

**Fig. 1** Input Connections - Balanced Mode

**3 Pin Male XLR**

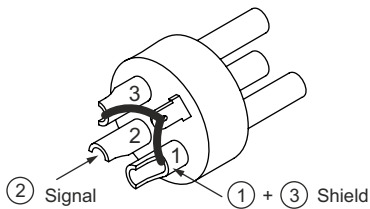


**6.3 mm (1/4") Stereo Phone Plug**

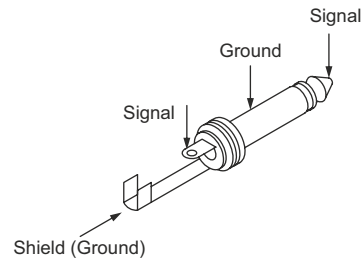


**Fig. 2** Input Connections - Unbalanced Mode

**3 Pin Male XLR**

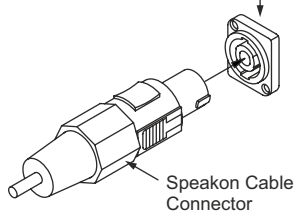


**6.3 mm (1/4") Mono Phone Plug**

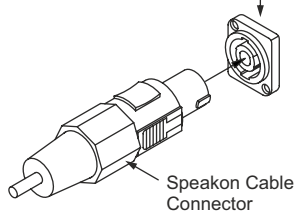


**Fig. 3** Output Connections

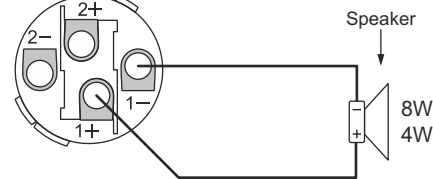
**Output Channel A**



**Output Channel B**

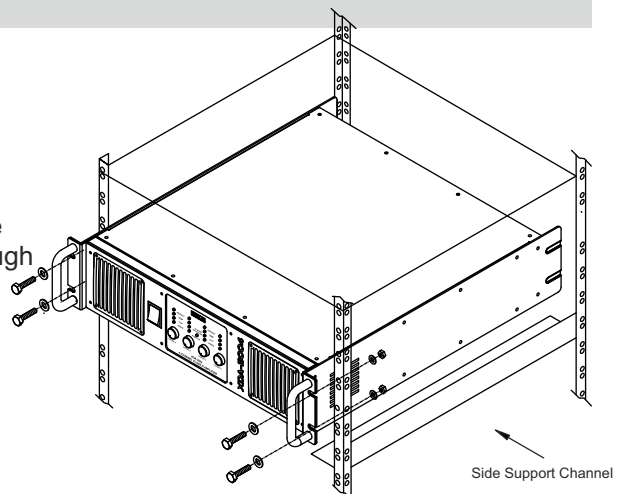


**Speakon Cable Connector (Inside View)**



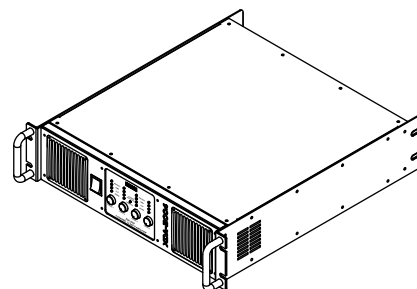
## 19" Rack Installation

- The amplifier is designed for use in a standard 19" rack with height of 3U units.
- In order to provide sufficient support base to the heavy amplifier, it is essential to use the 19" rack system with side support channels.
- The installed amplifier, should be well supported by the side support channels as well as rigidly fixed on to the rack through the two rack mount side brackets duly fitted with 'U' type handles, as shown in the figure below:





## Table Top Usage

- The 'U' handles are helpful in easy portability of the amplifier for table top usage. Do not keep the set on an unstable stand or tripod.

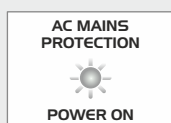






## • Trouble Shooting

**KEY TO LED SYMBOLS:** GLOWING  BLINKING  OFF 

### CONDITION: NORMAL OPERATION (ON/Fault LED is GREEN)

#### INDICATION:



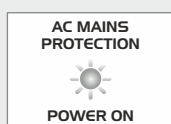
-  PROTECT
-  TEMP
-  CLIP
-  SIGNAL

#### Possible Reason:

- The amplifier is in normal operation (When signal is fed).
- Amplifier is working normal - ON/Fault LED is glowing with GREEN Colour.

### CONDITION: LOW OUTPUT (ON/FAULT LED IS GREEN)

#### INDICATION:



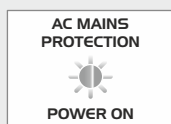
-  PROTECT
-  TEMP
-  CLIP
-  SIGNAL





#### Possible Reason:

- Check if the level of the input signal is too low.
- Check the signal source is operating and the input cable is intact.
- The channel volume control setting is too low.

### CONDITION: NORMAL OPERATION (ON/FAULT IS FLICKERING FROM GREEN TO ORANGE)

#### INDICATION:



-  PROTECT
-  TEMP
-  CLIP
-  SIGNAL

#### Possible Reason:

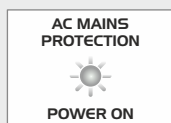
- ON/FAULT LED flickers between Green & Orange colour if AC Mains voltage varies between 170V to 185V.

#### Action:

- Ensure AC main voltage is  $240V \pm 10\%$ .

### CONDITION: POWER TO THE AMPLIFIER (ON/FAULT LED IS ORANGE)

#### INDICATION:



-  PROTECT
-  TEMP
-  CLIP
-  SIGNAL

#### Possible Reason:

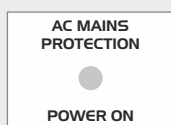
- AC main voltage is  $\approx 265V$ .
- DC fuse is blown OFF or DC fuse is loose in fuse clip.

#### Action:

- Ensure AC main voltage is  $240V \pm 10\%$ .
- Turn it off, remove AC power cord and get the amplifier serviced by qualified technician.

### CONDITION: NO POWER TO THE AMPLIFIER

#### INDICATION:



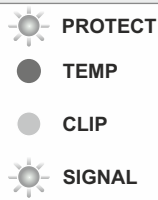
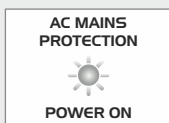
-  PROTECT
-  TEMP
-  CLIP
-  SIGNAL

#### Possible Reason:

- The amplifier power switch may be off.
- The amplifier may not be plugged into the power receptacle.
- Confirm that the AC outlet works by plugging in another device. If too many amplifiers are used on one outlet, the building's circuit breaker may trip and shut off power.
- An overload may cause the AC ckt protector trip. Check the AC ckt protector, if ckt protector is in Tripp condition then reset it by pushing the knob.

**CONDITION: NO SOUND (SIGNAL CONNECTED)**

**INDICATION:**



**Possible Reason:**

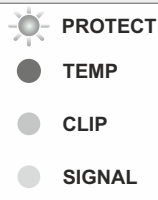
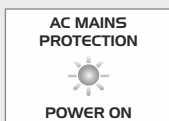
- The amplifier may be in protect (mute) mode due to speaker impedance mismatch or output short circuit.
- This could be due to wrong speakon connections or faulty speakers.
- Amplifier has gone to protect mode due to high input signal level, output short or overloading.

**Action:**

- Check the speaker impedance and speaker wiring for stray strands or breaks in the insulation.
- Check the level of signal from input source. If it is high then reduce the input signal level and then switch ON the amplifier and increase volume slowly.
- The amplifier should never be operated at a level which causes the clip LEDs to illuminate continuously. It will give distorted sound.
- Correct the fault and then use the amplifier.
- To restore normal operation, turn down the volume control, switch OFF the set for few seconds and switch ON again. Increase the volume control slowly for the desired output.

**CONDITION: NO SOUND (SIGNAL CONNECTED)**

**INDICATION:**



**Possible Reason:**

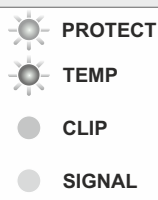
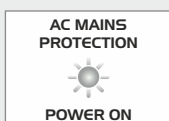
- The amplifier may be in protect (mute) mode due to output devices short, DCP (DC OFFSET).
- This could be due to wrong speakon connections or faulty speakers.

**Action:**

- Check the speaker impedance and speaker wiring for stray strands or breaks in the insulation.
- Turn it off, remove AC power cord and get the amplifier serviced by a qualified technician.
- To restore normal operation, turn down the volume control, switch OFF the set for few seconds and switch ON again. Increase the volume control slowly for the desired output.

**CONDITION: NO SOUND (SIGNAL CONNECTED)**

**INDICATION:**



**Possible Reason:**

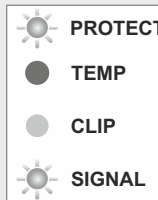
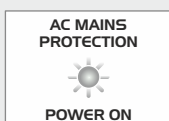
- The amplifier may be in protect (mute) mode due to output short circuit DCP, overloading or poor ventilation resulting in the rise in temperature either of output devices or power transformer as indicated by respective LEDs to unsafe region.
- This could be due to wrong speakon connections or faulty speakers.

**Action:**

- Switch off the amplifier to cool down.
- Check if the fan is working, proper ventilation is provided and output connections are as recommended, remove the fault if any.
- Check the speaker impedance and speaker wiring for stray strands or breaks in the insulation.
- To restore normal operation, turn down the volume control, then switch ON the set and increase the volume control for desired output.

**CONDITION: NO SOUND (SIGNAL CONNECTED)**

**INDICATION:**



**Possible Reason:**

- The Amplifier may be in protect mode due to DC fuse is blown OFF or DC fuse is loose in fuse clip.

**Action:**

- Turn it off, remove AC power cord and get the amplifier serviced by a qualified technician.



## • Specifications

<b>Model</b>	<b>XDA-3004</b>
<b>Continuous Rated Power</b> <b>Stereo/Mono</b>	8Ω 4 × 700W 4Ω 4 × 1200W
<b>THD + N</b>	<0.1%
<b>Frequency Response (-1dB)</b>	20-20,000Hz
<b>Power Bandwidth (0.5% THD)</b>	20-20,000Hz
<b>Input Sensitivity</b>	0dBu (775mV) & 4dBu (1.23V) (Selectable)
<b>Input Impedance</b>	10k Unbalanced, 20k Balanced
<b>S / N Ratio</b>	> 100dB
<b>Channel Separation</b>	> 65dB at 1kHz
<b>Damping Factor (8Ω)</b>	>1000
<b>Slew Rate</b>	20V/μs
<b>Protections</b>	Temperature, DC, RFI, Short Circuit, Overload, Overvoltage, Built-in Limiter (ON/OFF) AC: Circuit Protector 20A; ± DC: Fuse 8×12A (T 12A L)
<b>Input Connectors</b>	4×XLR, Stereo Phone Jack 6.3mm
<b>Output Connectors</b>	Speakon 4-Way for each channel
<b>Cooling</b>	4 x Variable Speed DC Fan with Temperature Sensing
<b>Front Panel Controls</b>	4 × 41 step Level Attenuators
<b>Indicators</b>	POWER ON/AC MAINS PROTECTION, Signal, Clip, Temperature, Protect (Ch. A, B, C & D)
<b>Power Consumption (Rated)</b>	5620W; 6460VA @ 220-240V~ 50/60Hz
<b>Dimensions</b>	W482 × H126 × D540mm
<b>Weight</b>	28.50kg Approx.

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