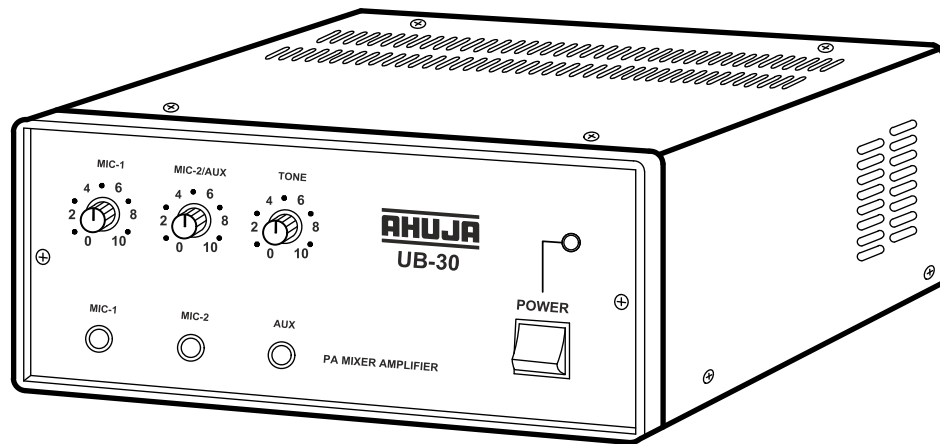


AHUJA[®]**PA Mixer Amplifier**

25W RMS/30W Max.

UB-30

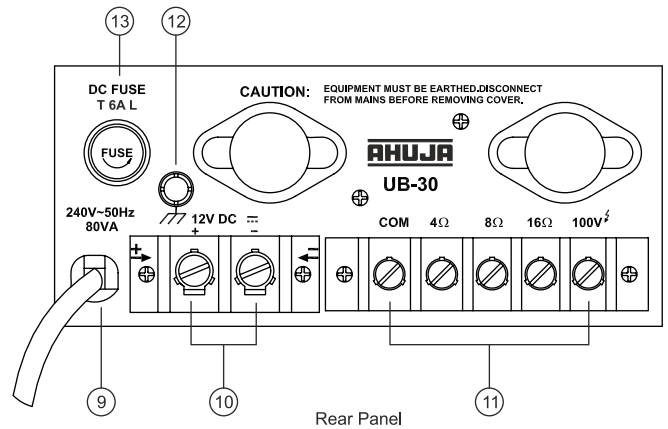
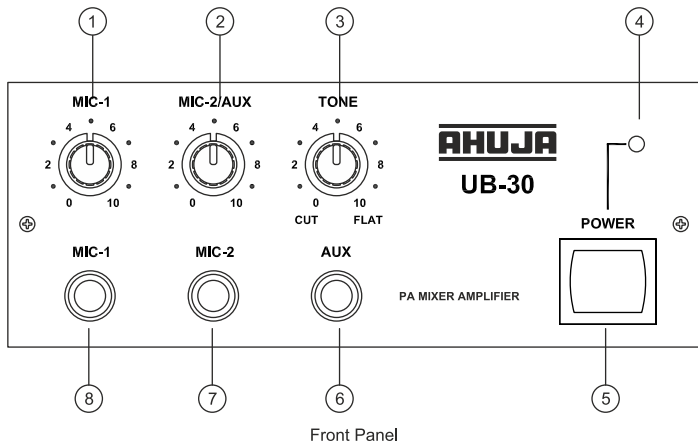
UB-30 is a ruggedly constructed PA mixer amplifier incorporating high tech design and circuitry ensuring absolute reliability and unflinching performance.

FEATURES

- Operation on 2 power sources - AC Mains & DC 12V Car Battery.
- Provision of automatic changeover from AC to Battery operation ensuring continuity of program.
- Protection against wrong battery polarity - provided.
- 2 Mic Inputs matchable to all low impedance microphones.
- Aux Input for connecting to any MP3 Player / Mixer.

-
- ◆ Thank you for purchasing the AHUJA PA Mixer 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 Mixer Amplifier.
 - ◆ Please retain this manual for future reference.

• Front & Rear Panel Controls & Features



1. MIC-1 Volume Control
2. MIC-2 / AUX Volume Control
- 3 TONE Control

For adjusting the overall tonal quality of the programme.

4. **POWER LED**

This LED glows when the amplifier is switched 'ON'.

5. **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.

6. **AUX Input Jack Socket**

7. MIC-2 Input Jack Socket
8. MIC-1 Input Jack Socket
9. 3 Core AC Mains Cable With Plug
10. BATTERY Terminal Strip

For connecting a 12V Car Battery as standby power source.

11. **SPEAKER Terminal Strip**

4, 8, & 16Ω for connecting low impedance speakers.

100V Line for connecting Column Speakers/ Driver Units with 100V line matching transformer.

12. **EARTH Terminal**

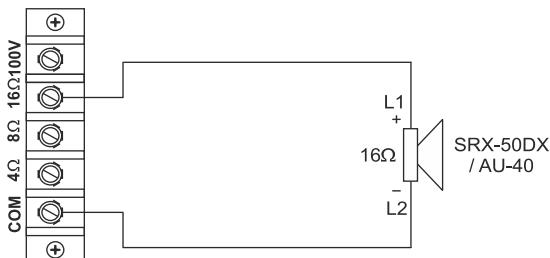
13. **DC FUSE Rating 6 Amp (T 6A L)**

• Speaker Connections

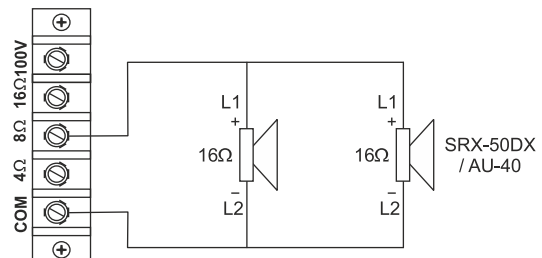
Low impedance Speaker Connections

Speaker impedance taps of 4, 8 and 16Ω have been provided at the rear. Always use 23/36 or thicker speaker cable to reduce power loss in the cables. Make proper matching speaker connections as explained below.

- Connecting one speaker / driver unit of 16Ω impedance to properly matched terminals



- Connecting two Speakers / Driver units of 16Ω impedance in parallel



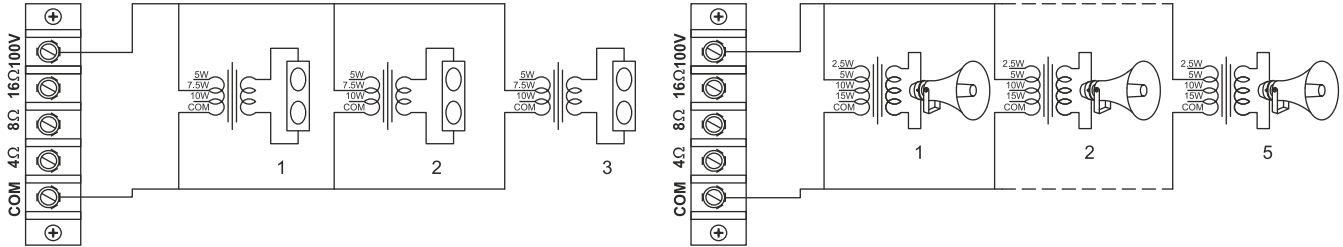
IMPORTANT

- Always connect L2 / (-) of driver unit / speaker to common of the output terminal strip of the amplifier and connect L1 / (+) to the 4Ω / 8Ω / 16Ω tap of the strip.

• Speaker Connections....

High Impedance (100V line) speaker connections

- Connecting 3 Column Speakers (like SCM-15T) with 100V LMT connected at **7.5 watts** tap.
- Connecting 5 Driver Units (like UHC-15XT) with 100V LMT connected at **5 watts** tap.



Correct Phasing of Loudspeakers

- When two or more Speakers / Units are installed in the same area and are facing the same direction, it is essential that their cones / diaphragms act in unison. Otherwise the sound level of one speaker will be canceling the sound level of the other. To avoid any mistake, the terminals of Box Speakers and the Driver Units are marked '+' & '-'. Always connect the COM of the Amplifier to '-' of speaker & 4Ω / 8Ω / 16Ω of the amplifier to the '+' of the speakers.
- In case of LMTs the COM of all the LMTs should be connected to the COM of the terminal strip of the amplifier and the power tap to 100V line as shown in figure.

IMPORTANT

- When 100 Volt line is being used, no speaker / driver unit should be connected to 4Ω / 8Ω / 16Ω (Low Impedance) Tap.
- When speakers are connected to COM - 4Ω / 8Ω / 16Ω terminal strip, no speaker should be connected to 100V line strip.

• Operation of Amplifier

Operation on AC Mains

- Set all Volume Controls to '0' position.
- Connect the speakers and required inputs to the amplifier.
- Plug-in the AC power supply cord to the nearest AC Mains Socket and put the power switch to 'ON' position.
- The pilot LED should start glowing.
- Amplifier is ready for operation.
- Adjust the volume and tone controls to the desired levels.

Operation on 12V Car Battery

- Connect the speakers and required inputs to the amplifier.
- Connect positive pole of the battery to the screw terminal of the battery strip marked '+' and the negative pole to the screw terminal marked '-'.
- The pilot LED should glow. In case it does not glow check the battery polarity.
- The amplifier is ready for operation.
- To switch off the amplifier on Car Battery operation, disconnect supply to battery terminals at the rear.

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.

• 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, and the voltage of the external battery, (if applicable) 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.

Exposure to Heat: Do not touch the heatsinks while the set is working.

• Specifications

Power Output	30 Watts RMS Max. 25 Watts RMS at 10% THD
Inputs / Sensitivities	2 × Mic 1.0mV / 4.7kΩ (Mic source impedance 50Ω to 1kΩ) 1 × Aux 100mV / 470kΩ
Frequency Response	150Hz-10,000Hz ±3dB
Tone Control	-10dB at 10kHz
Signal to Noise Ratio	60dB
Output Taps for Speaker Matching	4Ω, 8Ω, 16Ω & 100V
Power Supply	AC: 220-240V 50 / 60Hz; DC: 12-14V (Car Battery)
Protection	DC: Fuse 6Amp. (T 6A L)
Power Consumption	AC: 80VA; DC: 1.2A (average)
Dimensions	W180 × H80 × D260 mm
Weight	4.00 kg 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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