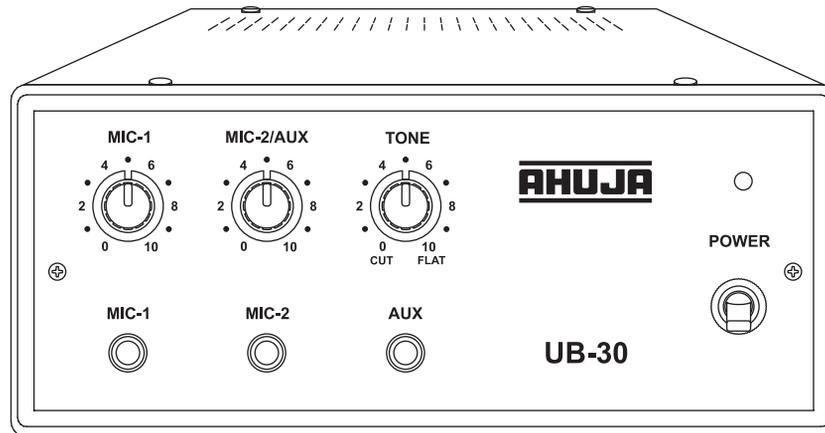


AHUJA[®]**PA AMPLIFIER**

25W RMS / 30W Max.

UB-30

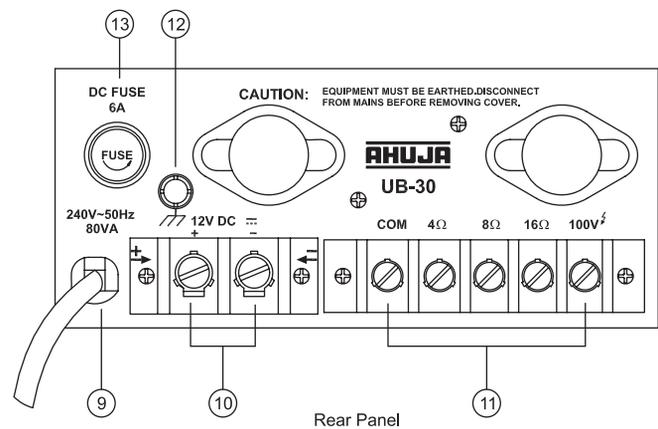
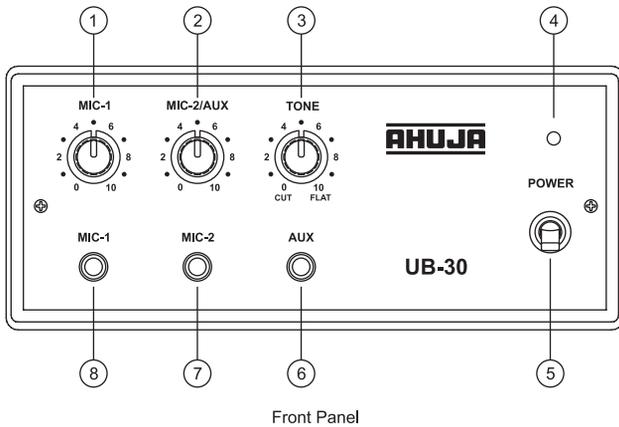
UB-30 is a ruggedly constructed PA amplifier incorporating high tech design and circuitry ensuring absolute reliability and unfailing performance.

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 Cassette Player / Mixer.

-
- ◆ Thank you for purchasing the AHUJA Portable 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.

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**
6. **AUX Input Jack Socket**
7. **MIC-2 Input Jack Socket**
8. **MIC-1 Input Jack Socket**

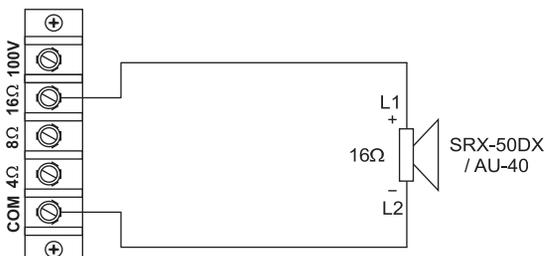
9. **2 Core AC Mains Cable With Plug**
10. **BATTERY Terminal Strip**
For connecting a 12V Car Battery as standby power source.
11. **SPEAKER Terminal Strip**
4, 8, & 16Ω for connecting low impedance speakers.
100V Line for connecting Column Speakers/ Driver Units with 100V line matching transformer.
12. **EARTH Terminal**
13. **DC FUSE (Rating 6 amp)**

SPEAKER CONNECTIONS

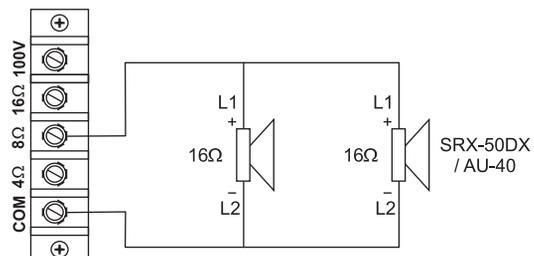
Low impedance Speaker Connections

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

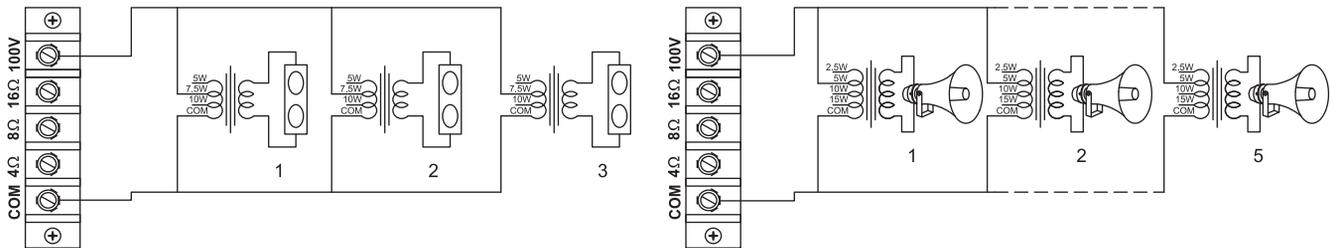


⚠ Caution

- 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.

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.

⚠ Caution

- 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 either water pipe or to electrical earth for safe operation.

SAFETY INSTRUCTIONS

- Water and Moisture:**
 In order to prevent any fire or shock hazard, do not expose this equipment to rain or moisture.
- Power Source:**
 The equipment should be connected to a 220-240V 50Hz AC or 12V DC power source. For 220V AC operation, a tap on the power transformer is available, which should be changed by authorised Ahuja dealer.
- Power-cord Protection:**
 Do not cut, kink, damage or modify the power supply cord supplied with the equipment. Keep the power supply cord away from heaters & harmful chemicals. Do not place heavy objects on the power cord.
- Operation on Generator:**
 When operating the amplifier on a generator, make sure it is switched 'OFF' till the generator voltage has stabilized and then only switch the powered speaker 'ON'.
- Ventilation:**
 The amplifier should be situated so that its location or position does not interfere with its proper ventilation. Also do not insert or drop anything into the ventilation holes.
- Protection Against Shocks:**
 Do not plug in or remove the power supply plug with wet hands so as to avoid electric shock.
- Prevention of Loss in Speaker Cables:**
 Always use thick cables for speaker connections. Use of cable type 23/36 or thicker is recommended for connecting low impedance speakers to avoid power loss in the cables, as heavy current flows through the cables.
- Proper selection of output Terminals:**
 When 100V line is being used, do not connect speakers to 4Ω or 8Ω or 16Ω tap. Similarly do not connect speakers to 100V line when 4Ω or 8Ω or 16Ω tap is being used.
- Grounding or Earthing:**
 The equipment must be earthed properly before operating it to avoid electric shock. A wire from the Earth Terminal must be connected to either water pipe or to electrical earth for safe operation.
- Replacing DC Fuse:**
 The DC Fuse should be replaced with another of the specified rating only.
- Exposure to Hot Region:**
 Do not touch the Heat Sink (Rear Panel) while the amplifier is in operation.

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)
Power Consumption	AC: 80VA DC: 1.5A (average)
Dimensions	W180 × H80 × D190 mm
Weight	4.0kg approx.

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AHUJA RADIOS • 215, Okhla Industrial Estate, New Delhi - 110 020, INDIA
 Tel.: +91-11-26831549, 41612474 Fax: +91-11-26847287
 E-mail: ahuja@ahujaradios.com, admin@ahujaradios.com
 Website: www.ahujaradios.com

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