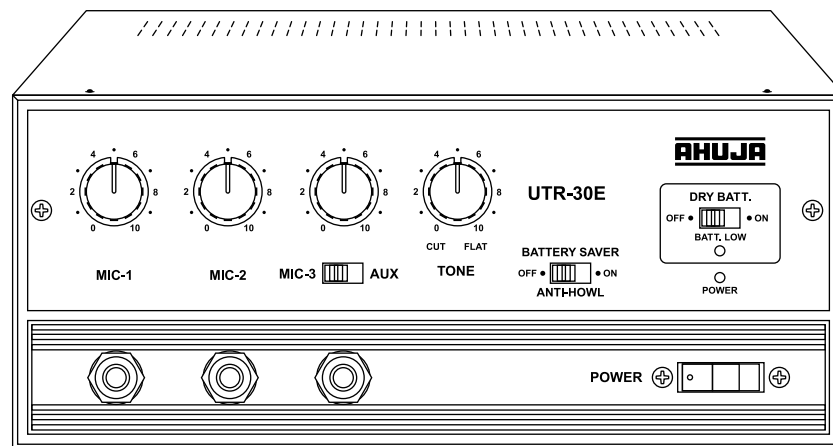


AHUJA®**PA AMPLIFIER**
25W RMS / 35W Max.**UTR-30E**

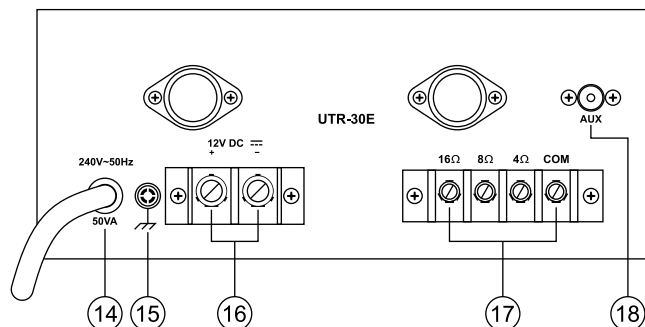
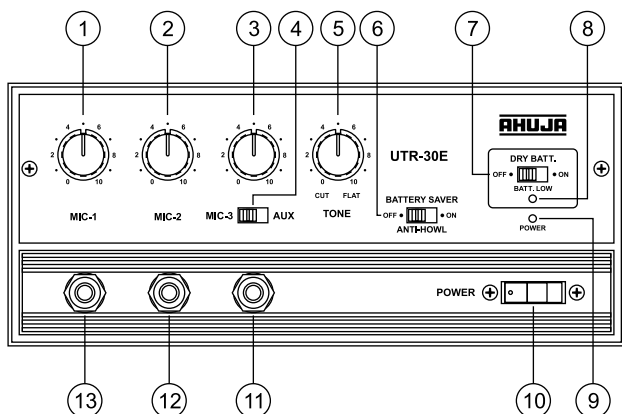
UTR-30E is a ruggedly constructed PA amplifier incorporating high tech design and circuitry ensuring absolute reliability and unfailing performance.

FEATURES

- Operation on 3 power sources - AC Mains, DC 12V Car Battery & DC 12V Dry Cells (8 × 1.5V UM-1).
- 3 Mic Inputs matchable to all low impedance microphones.
- Aux Input for connecting to any Cassette Player / Mixer. Aux Input is alternate to Mic-3 Input.
- Low Battery Indicator LED.
- Protection against wrong battery polarity provided.

-
- ♦ 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

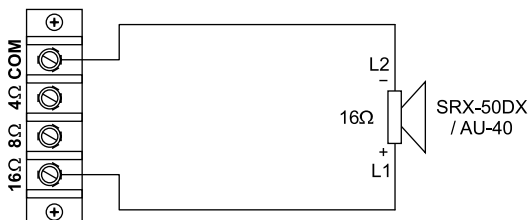


1. **MIC-1 Volume Control**
2. **MIC-2 Volume Control**
3. **MIC-3 / AUX Volume Control**
4. **MIC-3 / AUX Selector Switch**
5. **TONE Control**
For adjusting the overall tonal quality of the programme.
6. **BATTERY SAVER Switch**
When switched to 'ON' position:
 - Reduces unwanted low frequencies which cause howling.
 - Also reduces Dry Battery consumption.
7. **DRY BATT. ON / OFF Switch**
This switch is provided for the operating the amplifier on Dry Battery. This must be switched 'OFF' when the amplifier is operating on AC or 12V Car Battery.
8. **BATT. LOW Indicator LED**
This indicator LED glows when Dry Battery Cells have become weak. The UM-1 cells now need replacement.
9. **POWER LED**
This LED glows when the amplifier is switched 'ON'.
10. **POWER Switch**
11. **MIC-3 Input Jack Socket**
12. **MIC-2 Input Jack Socket**
13. **MIC-1 Input Jack Socket**
14. **2 Core AC Mains Cable With Plug**
15. **EARTH Terminal**
16. **BATTERY Terminal Strip**
For connecting a 12V Car Battery as standby power source.
17. **SPEAKER Terminal Strip (4, 8 and 16Ω)**
For connecting low impedance speakers.
18. **AUX Input Jack Socket**
For accepting an unbalanced signal from an auxiliary source like a Tuner, Cassette Player, CD Player, Echo or Audio Mixer etc.

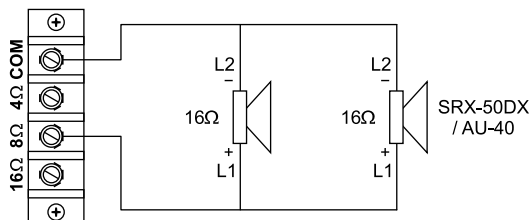
SPEAKER CONNECTIONS

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 connection 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.

OPERATION OF AMPLIFIER

Operation on AC Mains

- Set all Volume Controls to '0' position.
- Keep the Dry Battery Switch at 'OFF' 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.

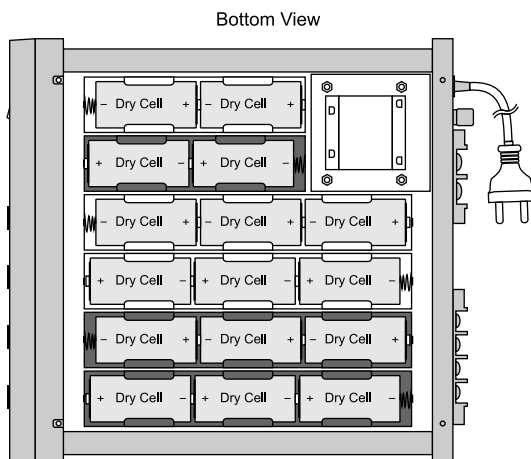
Operation on 12V Car Battery

- 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.

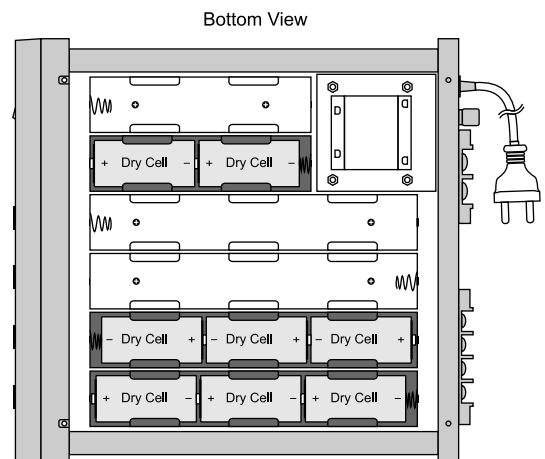
Operation on 12V Dry Cells (2 × 8 × 1.5V UM-1 Cells)

- Turn the amplifier upside down and remove the base plate.
- The dry cell section has two sets of cell trays - grey and white.
- Insert 8 or 16 nos. UM-1 cells in correct polarity as indicated on the cell trays and re-fix the base plate tightly.
- After connecting inputs and speakers, slide the Dry Battery Switch to 'ON' position. The pilot LED should glow.
- Amplifier is now ready for operation
- When the Low Battery LED glows it indicates that the Dry Cells are weak and need to be replaced.

BATTERY INSERTION



16 Cells for Longer Duration Operation



8 Cells (inserted in set of grey trays)
for Normal Operation

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.
- **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 | 35 Watts RMS Max. 25 Watts RMS at 10% THD |
| Inputs / Sensitivities | 3 × Mic 1.0mV / 10kΩ 1 × Aux 50mV / 250kΩ |
| Frequency Response | 150Hz-10,000Hz ±3dB |
| Tone Controls | -15dB at 10kHz |
| Signal to Noise Ratio | 60dB |
| Speaker Output | 4Ω, 8Ω & 16Ω |
| Power Source | AC: 220-240V 50 / 60Hz DC: 12-14V (Car Battery) DC: 12V Dry Cells (Two Banks of 8×1.5V UM-1 Cells each) |
| Power Consumption | AC: 50VA DC: 1.2A |
| Dimensions | W250 × H115 × D270 mm |
| Net Weight | 4.3kg (w/o dry cells) |