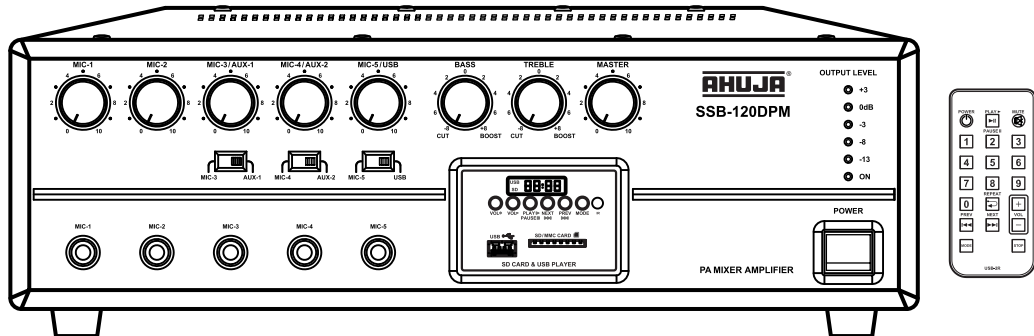


AHUJA[®]**PA Mixer Amplifier**

120W RMS/160W Max.

SSB-120[®]DPM**FEATURES**

- Designed for use in a wide variety of PA applications.
- SSB-120[®]DPM is a 120 Watts PA Mixer Amplifier with two unbalanced independent Mic inputs and further three unbalanced Mic inputs alternate to AUX-1, AUX-2 or USB.
- Built-in MP3 playback with Bluetooth facility and remote control is provided.
- SSB-120[®]DPM has a Preamp output for recording the program and a Line output for connecting to a Booster Amplifier
- Bass and Treble Controls have been provided which help to shape the tonal quality of music and speech to the desired requirement.
- LED array has been provided for visual monitoring of output level of music and speech. For safe operation, avoid having the +3dB LED continuously or frequently ON.
- Provision for automatic changeover from AC to Battery Operation ensuring continuity of program (if 12V battery is connected) has been provided.
- Protection provided against the reverse polarity of battery connections.
- Ease of operation, combined with service accessibility has been optimized in the design.

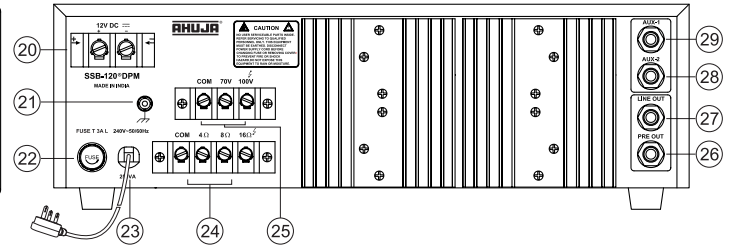
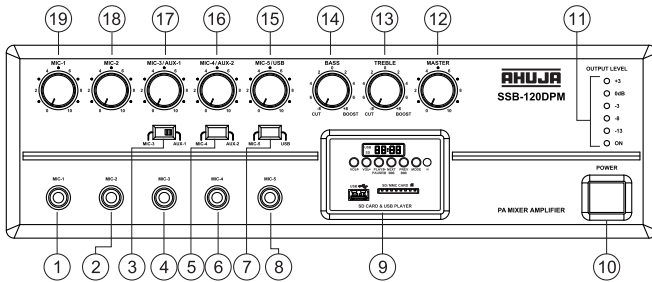
SPECIFICATIONS

Power Output	: 160 Watts RMS Max. : 120 Watts RMS at 10% THD : 105 Watts RMS at 5% THD	Signal to Noise Ratio	: 60dB
Output Regulation	: ≤2db (no load to full load at 1kHz)	Pre-amp Output	: 200mV / 600Ω
Inputs Channels	: 5 × Mic 0.65mV / 4.7kΩ : Aux-1 : 100mV / 470kΩ : Aux-2 : 100mV / 470kΩ	Line Output	: 1V / 1kΩ
MP3 Playback	: MP3 Player with USB, SD/MMC Card Reader & Bluetooth, with Remote.	Speaker Outputs	: 4,8 & 16Ω (for direct connection) : 70V & 100V Line (for use with LMT)
Frequency Response	: 50Hz - 15,000Hz ± 3dB	Power Source	: AC: 220-240V 50 / 60Hz; DC: 12V (Car Battery)
Tone Controls	: Bass : ±8dB at 100Hz : Treble : ±8dB at 10kHz	Protection	: AC: Fuse 3Amp. (T 3A L); DC: Fuse 14Amp. (T 14A L)
		Power Consumption	: AC: 250VA; DC: 5.5 Amps (average)
		Dimensions	: W420 × H135 × D275 mm
		Weight	: 10.30kg approx.

*This unit is connected to 240V tap when leaving the factory.

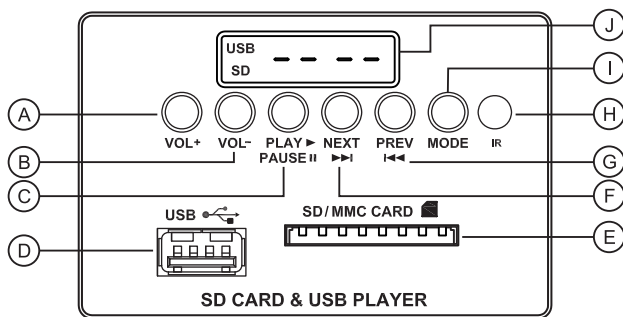
- ◆ Thank you for purchasing the AHUJA PA Mixer Amplifier.
- ◆ Please read this manual thoroughly before making connections & turning on the power. Following the instructions in this manual will enable you to obtain optimum performance from your new AHUJA PA Mixer Amplifier.
- ◆ Please retain this manual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

• Front & Rear Panel Controls & Features

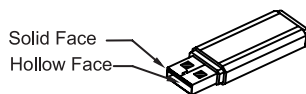


1. **MIC-1 Input Jack Socket** : For accepting unbalanced signal from a low impedance microphone.
2. **MIC-2 Input Jack Socket**
3. **MIC-3 /AUX-1 Selector Switch**
4. **MIC-3 Input Jack Socket**
5. **MIC-4 /AUX-2 Selector Switch**
6. **MIC-4 Input Jack Socket**
7. **MIC-5 /USB Selector Switch**
8. **MIC-5 Input Jack Socket**
9. **MP3 Playback Facility** (for details refer point A to J below)
10. **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.
11. **LED Array**: This indicates the output level of the amplifier.
12. **MASTER Volume Control**: For adjustment of the overall volume level from the amplifier.
13. **TREBLE Control**: For attenuating or boosting the signal level of high frequencies.
14. **BASS Control**: For attenuating or boosting the signal level of low frequencies.
15. **MIC-5/USB Volume Control**
16. **MIC-4/AUX-2 Volume Control**
17. **MIC-3/AUX-1 Volume Control**
18. **MIC-2 Volume Control**
19. **MIC-1 Volume Control**
20. **BATTERY Terminal Block**: For connecting a 12V Car Battery as standby power source.
21. **EARTH Terminal**
22. **AC MAINS FUSE 3 AMP 250V (T 3A L)**: This protects the amplifier from any excessive current flow.
23. **3 Core AC Mains Cable With Plug**
24. **SPEAKER Terminal Block (4,8 and 16 Ω)**: For connecting low impedance speakers.
25. **SPEAKER Terminal Block (70V, 100V)**: For connecting speakers with 100V line matching transformers.
26. **PREAMPLIFIER Output Jack Socket**: For connecting to the AUX input of another amplifier or a MP3 recorder for recording purpose.
27. **LINE Output Jack Socket**: For connecting to a booster amplifier to obtain combined higher power output.
28. **AUX-2 Input Jack Socket**
29. **AUX-1 Input Jack Socket**: For accepting an unbalanced signal from an auxiliary source like a Tuner, MP3 Player, Echo or CD Player etc.

• MP3 Playback Facility: Controls & Features

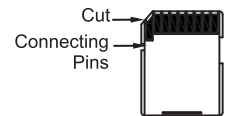


- A. **VOL+** : To increase volume level of MP3 player.
- B. **VOL-** : To decrease volume level of MP3 player.
- C. **▶|| PLAY/PAUSE**: Press PLAY/PAUSE once to Pause if music is already playing. Press PLAY/PAUSE again to resume playing.
- D. **USB Connector**: Insert the USB drive here. While inserting USB drive into the USB connector, hold the USB drive in such a way that hollow part of the USB drive is downwards as shown in Figure. Any forceful insertion in wrong direction will damage the connector.



- E. **SD/MMC Card Connector**: Insert the SD/MMC Card into the slot to play. When taking out the card, push the card to take out.

While inserting SD/MMC card into the slot, ensure that the card is inserted in such a way that all pins are facing upward and cut is towards left as shown in figure.

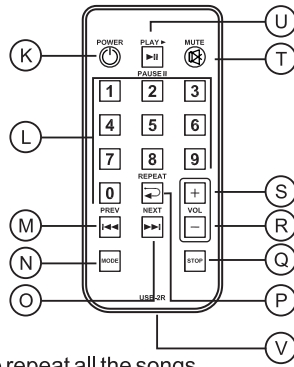


- F. **▶▶ Next**: Press NEXT to select next forward music track. Pressing NEXT repeatedly will move the system to successively next forward tracks. Then press PLAY/PAUSE for playing the track so selected.
- G. **◀◀ Prev**: Press PREV to Select the previous track. Pressing PREV repeatedly will move the system to successively previous tracks.
- H. **IR Sensor**: Picks up signal from the Remote control. Point the Remote control toward this sensor for the best results.
- I. **Mode**: To select USB, SD or Bluetooth. Default condition of the set is USB or SD whichever is inserted.
- J. **LED Display**: Instantly displays 3 digits of the track selected play to i.e 001 to 999. During play, display the time duration of the track played.

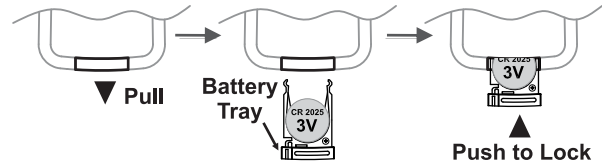
• Remote Control

Remote Control

- K. Power:** Press once to switch off MP3 player, press again to switch ON.
- L.** Number key 0 to 9. To choose the track number to be played.
- M. ◀▶:** To select the previous track.
- N. MODE :** To select SD, USB or Bluetooth Option.
- O. ▶▶:** Press to select the next track.
- P.** ↻ Press once to repeat the song being played. Press twice to repeat all the songs.
- Q. STOP:** Press to stop the track being played.



- R. Vol- :** Press to decrease the volume of MP3 Player.
- S. Vol+ :** Press to increase the volume of MP3 Player.
- T. MUTE:** Press once to mute the sound, press again the resume the sound.
- U. ▶|| PLAY/PAUSE:** Press Play/Pause once to Pause when music is already playing. Press Play/Pause again to resume playing.
- V. Battery Replacement:** Pull out the battery tray and replace the battery with positive electrode facing upwards as shown in fig. below. Push the battery compartment back to the close position. Use CR2025 or equivalent lithium coin cell.



• Pairing of Bluetooth Device

SWITCH ON the amplifier in use. The Default condition of the MP3 digital Player is USB/SD mode. The display shows — — — .

To play the MP3 programme from mobile phone or laptop via bluetooth, the PAIRING of the Bluetooth devices of mobile phone & amplifier is necessary. To use Bluetooth, Press Mode switch to select Bluetooth.

Pairing is done as follows:

SELECT the Bluetooth option in Mobile Phone or laptop & follow the instructions appearing on mobile/laptop screen.

Normally the following general instructions are followed:

Press ACTIVATE /ON/DISCOVERABLE/SEARCH, etc, as applicable in the mobile phone or laptop used.

The mobile phone or laptop starts searching for the new Bluetooth device. The moment Bluetooth appears on the mobile phone or laptop, select the new device i.e. Bluetooth and press OK or allow it to appear on mobile. System is ready to use.

In some mobiles, it asks for a code to allow access. Press 0000 and follow the steps, like pressing "OK", "Allow once", "Allow always" etc. and make the device ready for use.

Select the MP3 programme from mobile phone or laptop and press PLAY. The same song starts playing on the Ahuja amplifier. We can SELECT Volume, Fast Forward, Rewind, Play/Pause function either from keys or through Remote Control.

Note: It is not necessary that all functions of remote control will be activated through Bluetooth and compatibility varies from mobile to mobile.

• Speaker Connections

Low Impedance

Speaker impedance taps of 4, 8 and 16 ohms have been provided for direct connection of speakers to the amplifier when the distance between the amplifier and speakers is less than 50 meters. Use 23/36 or thicker cable for connections. Be sure that total impedance of speakers is equal to or above the impedance specified on the terminal strip.

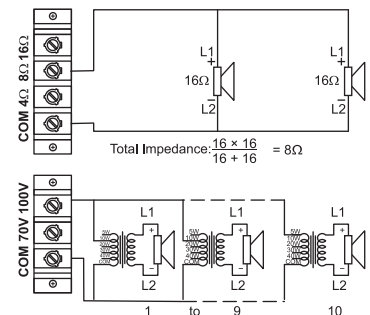
100V Line

When it is desired to connect speakers or driver units at a distance over 50 meters, it is recommended that the 100V line output be used together with line matching transformer for each speaker. This prevents excessive power loss in the speaker cables.

Phasing of loudspeakers/units

When two or more speakers / units are installed in the same area and are facing in the same direction, it is essential that their cones / diaphragms move in unison. Otherwise, the sound output of one speaker will cancel the sound output of the other. To avoid any mistake, the terminals of box speakers are marked '+' & '-'. Always connect the COM of the amplifier to '-' of speakers & 4Ω / 8Ω / 16Ω terminal of the amplifier to the '+' of the speakers.

The terminals of speakers / units with LMT are marked COM and power tapping. COM of these speakers / units should be connected to the COM of the terminal strip of the amplifier and the power tap to 100V line.



IMPORTANT: Speaker impedance mismatch may cause insufficient output or over heating of the components which may result in failure of components.

• Operating Procedure

1. Set all volume controls to '0' position and keep the power switch at OFF position. Connect the speakers and required inputs.
Plug in the AC power supply cord to the nearest AC mains socket and put the power switch to POWER position. The pilot LED should glow.
2. Select the desired MIC input to use and increase the individual control to desired level. Keep master control at 6 or 7 position.
3. Select MIC/USB Switch to desired input e.g USB or MIC-5.
4. For USB:
 - Select the MIC/USB Switch to USB
 - Insert pen drive to USB port, it starts playing automatically from the 1st track or from the last track played if the same pen drive is used earlier.
5. Bass and Treble setting can be done for desired tonal quality.
6. Use remote control to switch OFF the USB MP3 Player while not in use.
If power to the amplifier is switched OFF and ON again, the USB function will automatically switch ON again.
7. To use bluetooth, select the option using MODE key & pair the devices as per instruction above. After pairing is complete, select the desired track from mobile or laptop to play.

• 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 & the Manual for future reference.

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.

Cover Strip: The cover strip of the 100V / 70V audio output terminal strip must be replaced after making connections.

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.

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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E. & O. E.