

Ahuja SSA250M

Ahuja SSA250M PA Mixer Amplifier User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation of your Ahuja SSA250M PA Mixer Amplifier. Please read this manual thoroughly before use and retain it for future reference.

The Ahuja SSA250M is a high-wattage Public Address (PA) mixer amplifier designed for various sound reinforcement applications. It features multiple input options, robust power output, and essential protection mechanisms.

2. IMPORTANT SAFETY INSTRUCTIONS

To prevent fire, electric shock, or product damage, always follow these basic precautions:

- Read all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. PRODUCT OVERVIEW

Features

- 6 Microphone (Mic) Inputs and 2 Auxiliary (Aux) Inputs for versatile connectivity.

- Preamplifier Output and Line Output for connecting to a booster amplifier or for recording.
- Line Input for connecting external mixers or using the SSA250M as a booster power amplifier.
- Resettable circuit breaker provides protection against overload and short circuit conditions.
- Instant transfer to DC power (car battery) in case of AC power failure.
- Frequency Response: 50-15,000Hz ± 3 dB.

Controls and Indicators (Front Panel)



Image: Close-up view of the Ahuja SSA250M amplifier's front panel, showing individual microphone and auxiliary input level controls, master volume, bass and treble tone controls, output level indicators, and power/overload indicators.

1. **MIC 1-6 Inputs:** 6 individual microphone input jacks.
2. **MIC/AUX Level Controls:** Rotary knobs to adjust the input level for each microphone and auxiliary channel.
3. **MASTER Volume:** Controls the overall output volume of the amplifier.
4. **BASS/TREBLE Controls:** Adjusts the low and high frequency response of the audio output.
5. **OUTPUT LEVEL Indicators:** LED bar graph displaying the output signal level.
6. **POWER Indicator:** Illuminates when the amplifier is powered on.
7. **OVERLOAD Indicator:** Illuminates to indicate an overload condition.
8. **RESET Button:** Used to reset the circuit breaker after an overload.
9. **POWER Switch:** Turns the amplifier on or off.

Connections (Rear Panel)



Image: Rear panel of the Ahuja SSA250M amplifier, showing AC power input, DC power terminals, speaker output terminals, line input, line output, and preamplifier output connections.

1. **AC Power Input:** Connects to the main AC power supply.
2. **DC Power Input:** Terminals for connecting a 24V DC power source, such as a car battery.
3. **Speaker Output Terminals:** Connections for various speaker impedances (COM, 4Ω, 8Ω, 70V, 100V).
4. **LINE IN:** Input for connecting external audio sources or another amplifier.
5. **LINE OUT:** Output for connecting to another power amplifier.
6. **PREAMP OUT:** Output for connecting to a booster amplifier or recording device.

4. SETUP GUIDE

Unpacking

Carefully remove the amplifier from its packaging. Inspect for any signs of damage. Retain the packaging for future transport or storage.

Placement

Place the amplifier on a stable, flat surface. Ensure adequate ventilation around the unit to prevent overheating. Do not cover ventilation openings.

Power Connection

AC Power

Connect the supplied AC power cord to the AC Power Input on the rear panel and then to a suitable wall outlet (240V AC).

DC Power (Battery)

For DC operation, connect a 24V DC car battery to the DC Power Input terminals on the rear panel, observing correct polarity (+ to + and - to -). The amplifier will automatically switch to DC power if AC power fails.

Connecting Speakers

Connect your speakers to the appropriate Speaker Output Terminals on the rear panel. Ensure the speaker impedance matches the amplifier's output impedance (e.g., 4Ω, 8Ω) or use the 70V/100V constant voltage outputs for compatible PA speaker systems.

Connecting Input Devices

Microphones

Connect microphones to the MIC 1-6 input jacks on the front panel.

Auxiliary Devices

Connect auxiliary audio sources (e.g., CD player, media player) to the AUX inputs.

External Mixer / Booster Amplifier

Use the LINE IN for connecting an external mixer. Use the PREAMP OUT or LINE OUT to connect to a booster amplifier or recording equipment.

5. OPERATING YOUR AMPLIFIER

Powering On

Ensure all connections are secure and input levels are set to minimum. Press the POWER switch on the front panel to turn on the amplifier. The POWER indicator will illuminate.

Adjusting Input Levels

Gradually increase the individual MIC/AUX Level Controls for the active input channels until the desired volume is achieved. Monitor the OUTPUT LEVEL indicators to avoid clipping.

Master Volume Control

Use the MASTER Volume control to adjust the overall output volume of the amplifier.

Tone Adjustment

Adjust the BASS and TREBLE controls to fine-tune the audio's low and high frequencies according to your preference or acoustic environment.

Powering Off

Before powering off, reduce the MASTER Volume to minimum. Then, press the POWER switch to turn off the amplifier.

6. MAINTENANCE

Cleaning

Regularly clean the amplifier's exterior with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure ventilation openings are free from dust and debris.

Storage

If storing the amplifier for an extended period, disconnect all cables, pack it in its original packaging (if available), and store it in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord disconnected; AC outlet faulty; DC battery discharged; Circuit breaker tripped.	Check power cord connection; Test AC outlet; Recharge/replace DC battery; Press the RESET button.
No sound output	Speaker connections loose/incorrect; Input device not connected; Input/Master volume too low; Mute engaged (if applicable).	Verify speaker wiring; Check input device connection; Increase volume controls; Ensure no mute function is active.
Distorted sound	Input level too high (clipping); Speaker impedance mismatch; Faulty speaker/cable.	Reduce input levels; Check speaker impedance compatibility; Test with different speakers/cables.
OVERLOAD indicator on	Excessive output load; Short circuit in speaker wiring.	Reduce volume; Check speaker connections for short circuits; Press the RESET button.

8. TECHNICAL SPECIFICATIONS

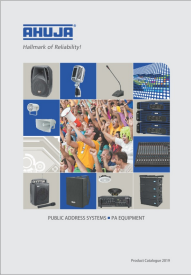
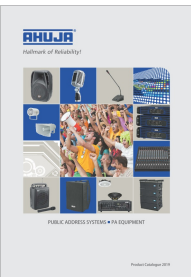
Specification	Detail
Brand	Ahuja
Model	SSA250M
Output Power	600 Watts (Peak/Max)
Number of Channels	8 (6 Mic, 2 Aux)
Frequency Response	50-15,000Hz ±3dB
Voltage	240 Volts AC, 24 Volts DC
Dimensions (L x W x H)	52.2 x 43.6 x 21.2 Centimeters
Item Weight	16 kg
Construction Material	Durable Metal Chassis
Mounting Type	Surface Mount
Included Components	1 Electronic Component Amplifier
UPC	689274295178

9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact Ahuja customer service or an authorized service center. Details can typically be found on the manufacturer's official website or included warranty card.

Manufacturer: AHUJA RADIOS, 215, Okhla Industrial Estate, New Delhi-110 020, India.

Related Documents - SSA250M

	Ahuja Audio Systems: Exhibitions, Roadshows, and Installation Report A comprehensive report detailing Ahuja's extensive network of roadshows, exhibitions, and recent successful installations across various sectors including offices, commercial venues, educational institutions, and places of worship throughout India.
	Ahuja PA News: Latest Updates and Installations Stay informed with Ahuja PA News, featuring updates on dealer meets, training sessions, music forums, and recent installations of Ahuja sound systems across various venues. Discover the latest in public address technology.
	AHUJA XDA-3004 Four Channel Class D Amplifier Operation Manual Comprehensive operation manual for the AHUJA XDA-3004 Four Channel Class D Amplifier. Details setup, operation, safety, features, and specifications for professional audio applications.
	Ahuja Public Address Systems & PA Equipment Product Catalogue 2019 Explore the comprehensive Ahuja product catalogue featuring a wide range of Public Address (PA) systems, amplifiers, microphones, speakers, and professional audio equipment. Discover innovative solutions for all your sound reinforcement needs.
	AHUJA Public Address Systems & PA Equipment Product Catalogue 2019 Explore the comprehensive AHUJA Product Catalogue 2019, featuring a wide range of Public Address (PA) systems, amplifiers, microphones, speakers, and conference solutions designed for professional audio applications.
	Ahuja Product Catalogue 2023-24: Professional Sound Reinforcement Solutions Explore the comprehensive Ahuja Product Catalogue 2023-24, featuring professional sound reinforcement solutions including amplifiers, mixers, microphones, speakers, wireless systems, and more.



[Ahuja Audio Systems: Exhibitions, Roadshows, and Installation Report](#)

A comprehensive report detailing Ahuja's extensive network of roadshows, exhibitions, and recent successful installations across various sectors including offices, commercial venues, educational institutions, and places of worship throughout India.

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