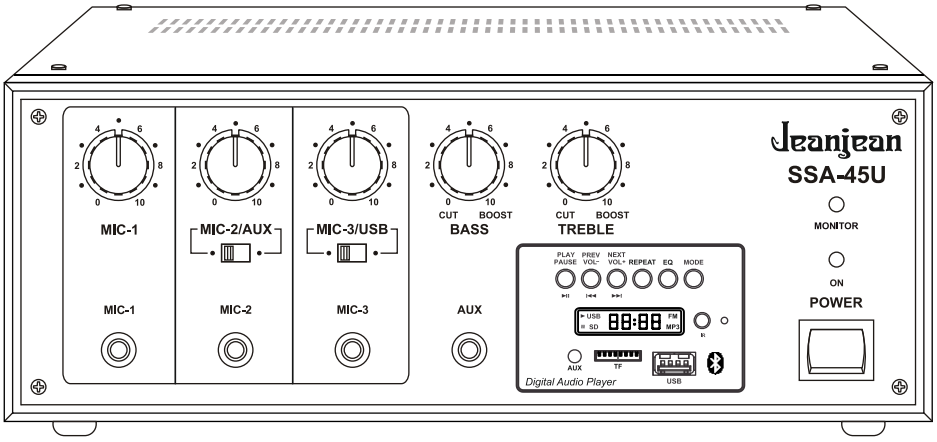
OPERATION MANUAL

Jeanjean

PA Mixer Amplifier

45W RMS/60W Max.

SSA-45U



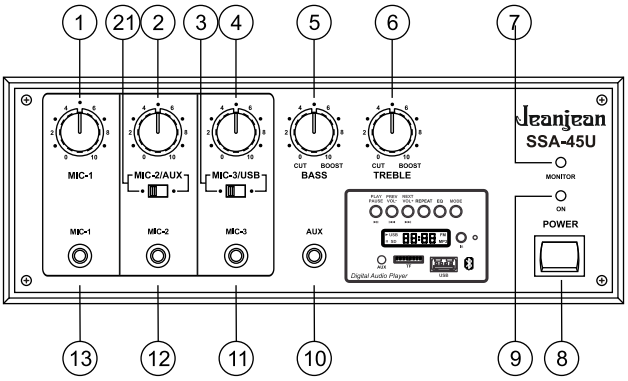
SSA-45U incorporates high-tech design and circuitry with high quality performance and absolute reliability.

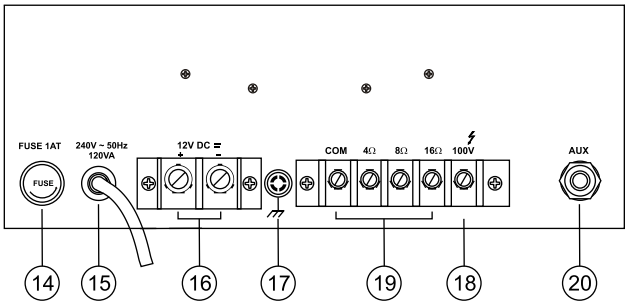
FEATURES

- Provision for automatic changeover from AC to Battery Operation ensures continuity of program.
- 3-MIC & 1-AUX inputs
  Mic-1 is provided with individual Volume Controls. Mic-2 is alternate to Aux input. Volume Control for Mic-3 is alternate to USB. The Aux input is for connecting Mixer, Cassette Player etc.
- BASS and TREBLE controls provided for shaping tonal quality of music & speech as desired.
- PRE-AMP for connecting Cassette Recorder for recording or for connecting additional Booster Amplifier.
- Protection against wrong battery polarity - provided.
- 100V line for long distance speakers connections.

- Thank you for purchasing the JeanJean P.A. 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 JeanJean P.A. 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. **MIC-3/USB Selector Switch**
4. **MIC-3/USB Volume Control**
5. **BASS CONTROL**
   For attenuating the signal level of low frequencies.
6. **TREBLE CONTROL**
   For attenuating the signal level of high frequencies.
7. **MONITOR LED**
   This LED indicates the output level of Amplifier.
8. **POWER Switch**
9. **POWER LED**
   This LED glows when the amplifier is switched 'ON'.
10. **AUX Input Jack Socket**
    For connecting, Cassette Player, CD Player, Echo Mixer or Audio Mixer etc.
11. **MIC-3 Input Jack Socket**
    For connecting Lo-impedance microphones.
12. **MIC-2 Input Jack Socket**
13. **MIC-1 Input Jack Socket**
14. **AC MAINS FUSE 1 Amp 250V**
    This prevents excessive current flow caused by any defect / short circuit in the amplifier.
15. **2 Core AC Mains Cable With Plug**
16. **BATTERY Terminal Block**
    For connecting a 12V Car Battery as standby power source.
17. **EARTH Terminal**
18. **SPEAKER Terminal Block (100 V line)**
    For connecting Column Speakers / Driver Units with 100V line matching transformers.
19. **SPEAKER Terminal Block (4, 8 and 16 ohm)**
    For connecting low impedance speakers.
20. **PRE-AMP output jack Socket**
    For connecting to Cassette Recorder or Booster.
21. **MIC-2/AUX Selector Switch**

GUIDELINES TO OPERATE THE AMPLIFIER

- Place the amplifier in dry and well ventilated place. Considerable heat is generated inside the amplifier during continuous use, therefore do not block the top cover ventilation holes by placing anything on top of the amplifier.
- Only good quality Low Impedance Microphones like JeanJean PSM-580XLR, PUD-101, PUD-77DX are recommended to be used to avoid / reduce feedback & howling. This will help obtaining satisfactory power output from Amplifier without howling or feedback.
- Driver Units, Column Speakers & Box speakers give best performance and are safe from damage when fed with upto half of their handling capacity. This is because these have to handle certain peak music signals and transients which may be two to three times higher than the power wattage being fed to these by Amplifier.
- It is advised to keep the Master Control of the Amplifier at '0' position before switching 'ON' the amplifier & later may be moved to optimum position say '6 to 8'.

⚠ Caution

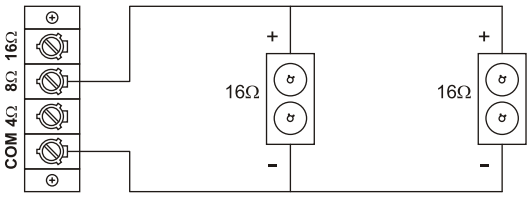
- The equipment must be earthed properly before operating it to avoid electric shock. A wire from the Earth Terminal must be connected to either water pipe or to electrical earth for safe operation.

SPEAKER CONNECTIONS

Low impedance speaker connections

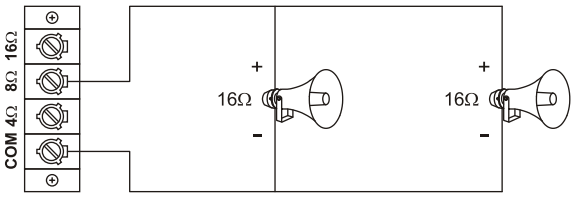
Speaker impedance taps of 4, 8 and 16Ω have been provided at the rear. Always use 23/36 or thicker speaker cable to reduce power loss in the cables. Make proper matching speaker connection as explained below.

■Connecting two Speakers (like SRX-50DX) in parallel.



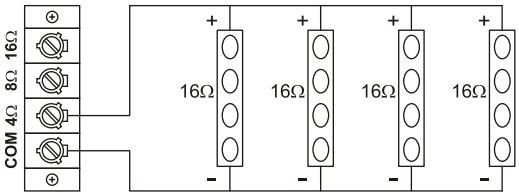
Resultant Impedance = 16 / 2 = 8 ohms

■Connecting two driver units (like PU-40) in parallel.



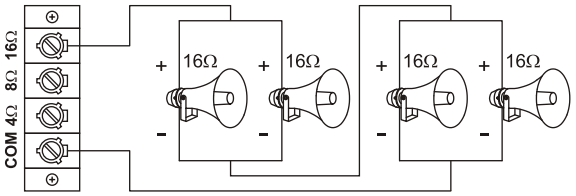
Resultant Impedance = 16 / 2 = 8 ohms

■Connecting four Speakers (like SCM-30) in parallel.



Resultant Impedance = 16 / 4 = 4 ohms

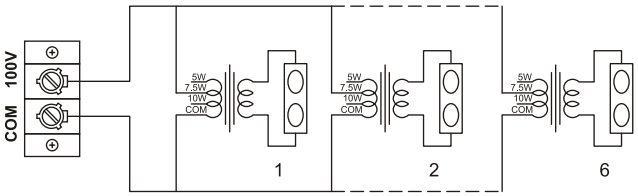
■Connecting four driver units (like PU-35 / PU-40) in a series - parallel combination.



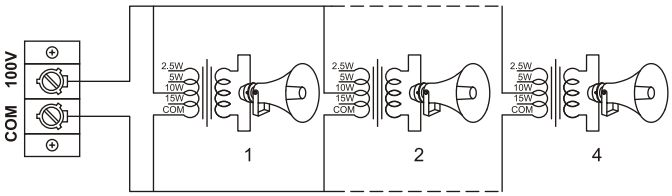
Resultant Impedance = (16x2) / 2 = 32 / 2 = 16 ohms

High Impedance (100V line) speaker connections

■Connecting 6 Column Speakers (like SCM-15T) with 100V LMT connected at 7.5 watts tap.



■Connecting 4 Driver Units (like UHC-15XT) with 100V LMT connected at 10 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 red strip terminal 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.

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 50/60Hz AC or 12V DC power source. For 220V AC operation, a tap on the power transformer is available, which should be changed by authorised 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 AC Mains Fuse:**
  After disconnecting the AC mains and rectifying the defect in the amplifier, change the fuse with another of the specified rating only.
- **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	60 Watts RMS Max. 45 Watts RMS at 10% THD 40 Watts RMS at 5% THD
Output Regulation	≤2dB, no load to full load at 1kHz
Inputs / Sensitivities	3 × Mic 0.65mV / 4.7kΩ 1 × Aux 100mV / 470kΩ
Frequency Response	100Hz - 15000Hz ± 3dB
Tone Controls	Bass : ±10dB at 100Hz Treble : ±10dB at 10kHz
Signal to Noise Ratio	60dB
Pre-Amp Output	200mV / 600Ω
Speaker Output	4Ω , 8Ω , 16Ω and 100V
Power Source	AC : 220-240V 50/60Hz DC : 12V (Car Battery)
Power Consumption	AC : 110VA DC : 2 Amps (average)
Dimensions	W300 × H115 × D265 mm
Weight	4.8kg approx.