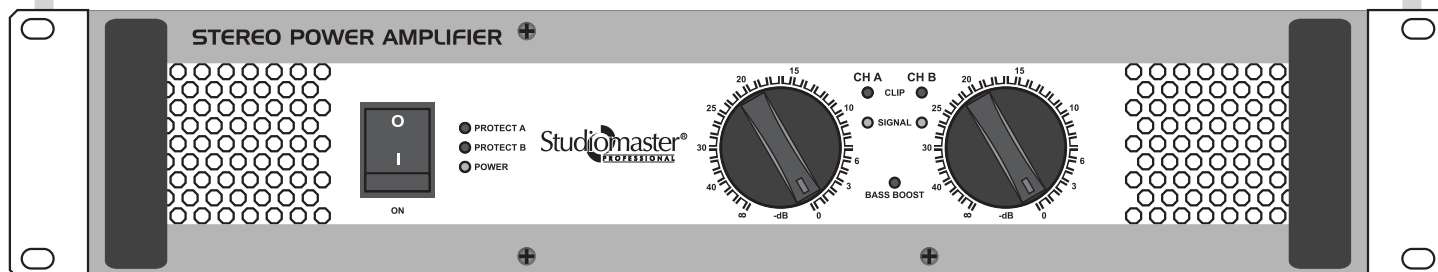




Stereo Power Amplifier

Models: DJA 800

DJA 1600



A series of high output, high quality stereo power amplifiers offering greater reliability for a wide range of Clubs, Stage and P.A. applications.

Features. . .

- Lightweight, Rugged & Reliable Stereo Power Amplifier.
- Output: Speakon, 6.3mm jack socket & Binding Post Connectors.
- EQ Processing, Low Cut, Subwoofer on rear Panel.
- Temperature controlled Fans.
- 19" 2U Rack Mountable design.
- Input: Balanced XLR & 1/4" Jack.
- Level Control & LED indicators (Power, Signal, Clip, Bass Boost & Protect) on front panel.
- Stereo, Bridge & Parallel Mode Selection Switch.
- Protection: Temperature DC, Short Circuit.
- Mains voltage operation 220VAC-240VAC as well as Low Voltage Operation (150VAC).

Instruction Manual

INSTRUCTION MANUAL - STEREO POWER AMPLIFIERS



**WARNING : THIS UNIT MUST BE EARTHED.
KEEP WELL VENTILATED.**

INTRODUCTION

Thank you for purchasing the Studiomaster Professional DJA series amplifier. These amplifiers incorporate Studiomaster Professional renowned technological expertise, & offers high reliability, rock-solid stability, & superb acoustic characteristics.

INSTALLATION

- Connect this unit's power cord only to an AC outlet of the type stated in this Instruction Manual or as marked on the unit. Failure to do so is a fire and electrical shock hazard.
- Do not allow water to enter this unit or allow the unit to become wet this may result in Fire or electrical shock.
- Do not place a container with liquid or small metal objects on top of this unit. Liquid or metal objects inside this unit are a fire and electrical shock hazard.
- Do not place heavy objects, including this unit, on top of the power cord. A damaged power cord is a fire and electrical shock hazard.
- Be sure to connect to an appropriate outlet with a protective grounding connection. Improper grounding can result in electrical shock.

OPERATION

- Do not scratch, bend, twist, pull, or heat the power cord. A damaged power cord is a fire and electrical shock hazard.
- Do not remove the unit's cover. You could receive an electrical shock. If you think internal inspection, maintenance, or repair is necessary, please contact your dealer.
- Do not modify the unit. Doing so is a fire and electrical shock hazard.
- If lightning begins to occur, turn off the power switch of the unit as soon as possible, and unplug the power cable plug from the electricity outlet.
- If there is a possibility of lightning, do not touch the power cable plug if it is still connected. Doing so may be an electrical shock hazard.

For correct operation

Connector pin assignments • XLR-type connectors are wired as follows Pin 1: ground; Pin 2: hot (+); in 3: cold (-)

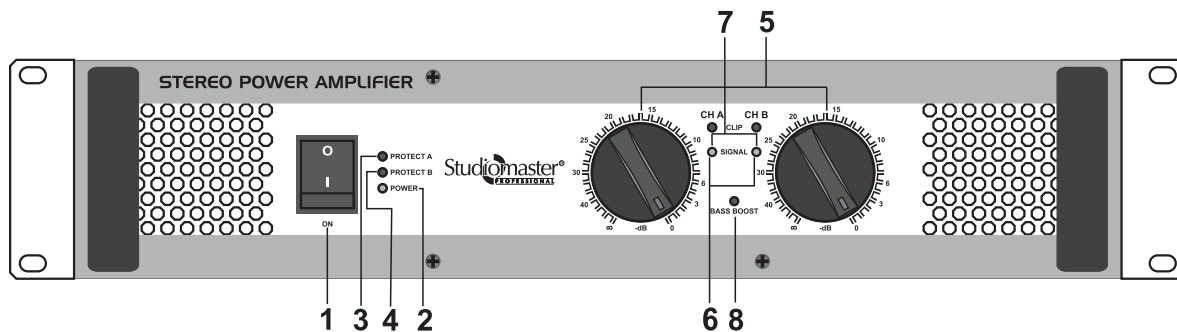
Always turn the power off when the amplifier is not in use.

Illustrations in this manual are for explanatory purposes only, and may not match the actual appearance of the product during operation.

FEATURES

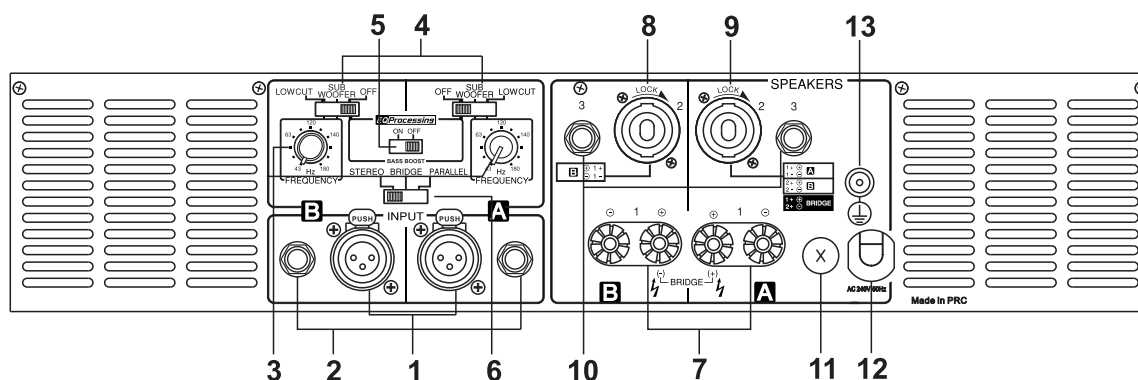
- With two types of input jacks (balanced XLR & 1/4" Jack) and three types of output jacks (Speakon, binding post & 1/4" Jack). The DJA series is suitable for a wide variety of applications and installed systems.
- The unit offers three operating modes: STEREO (where Channels A & B operate independently), PARALLEL (where the unit outputs a mono source through twin amplifier systems), and BRIDGE (where the unit operates as a single high-power amplifier)
- Each channel is equipped with an independent LOW CUT/SUB WOOFER switch-where LOW CUT engages a high-pass filter, and SUB WOOFER engages a low-pass filter. With LOW CUT or SUB WOOFER selected, you can adjust the cutoff frequency from 43Hz to 180Hz.
- Each channel has a common bass boost switch, when turned ON, the amplifier adds low-frequency compensation so that the speaker output is enhanced.
- Each channel has its own SIGNAL and CLIP indicators.
- The PROTECTION indicator lights up-and sound output is automatically muted-whenver the unit's protective circuitry is operating i.e. thermal and DC protection.
- Variable-speed low-noise fans ensure the amplifiers run cool.

FRONT PANEL



1. Power ON/OFF switch
2. Power on/off LED indicator
3. Protect indicator for CH A
4. Protect indicator for CH B
5. CH A & CH B gain control
6. Signal LED indicator
7. Clip LED indicator
8. Bass boost indication

REAR PANEL



1. Balanced XLR input - This XLR connector takes the signal (balanced/unbalanced) for driving the channel. If the signal is unbalanced, pin 2 can be used for the signal and pin 3 connected to the earth.
2. Balanced 6.3 mm jack input - This stereo jack connector takes the signal (balanced/unbalanced) for driving the channel. If the signal is unbalanced, a mono connector may be used.
3. Frequency adjustment knob - When the EQ is selected between Low Cut & Sub woofer, use this knob to adjust the frequency.
4. Filter Switch - Use this switch to select the filter type. SUB WOOFER.....Uses a low-pass filter. The amplifier outputs the frequencies that are lower than the cut-off set by the FREQUENCY adjustment knob. LOW CUT.....Uses a high-pass filter. You can use this setting to filter out unneeded low or subsonic frequencies.
5. Bass Boost Switch - If you set this switch ON, the amplifier adds low-frequency compensation so as to enhance speaker output. The results (the actual change in the low-frequency balance) will vary according to the speaker type. Note that this switch is effective only if the FILTER switch is set to OFF.
6. Configuration Switch - This 3 way switch configure the amp for the three working modes parallel, stereo and bridge.
7. Output Binding Post - For CH A & CH B use this output for picking up the amplified signals individually for stereo mode, and in combination for bridge mode.
8. CH B speakon connector : Use this connector for CH B output at 1+ & 1-
9. CH A / Bridge speakon connector : Use this connector for CH A output (1+ & 1-)
CH B Output (2+ & 2-), Bridge output (1+ & 2+)
10. Output-stereo jacks : Use this 6.3mm jack connector for CH A & Ch B Output.
11. Fuse holder socket : Fuse holder has 10A fuse for DJA 800 & 12A for DJA 1600. Replace with same type & rating.
12. Power cable : Use this cable for supplying power to unit.
13. External earth terminal: For a possible ground connection (e.g. in case of hum problems).

OPERATION

1. Connect loudspeaker system (MINIMUM load 4 ohms) with sufficient handling capacity to the output terminals of the amplifier.
2. Connect output from mixer (or any other suitable signal source) to the appropriate input sockets of the power amplifier.
NOTE. All inputs are BALANCED and connections for the XLR input are Pin 1 = GND, 2=HOT, 3= COLD
3. Connect the power cord to the mains.
4. Turn gain controls to minimum , switch on the amplifier and the Green power LED will illuminate.
5. Adjust gain controls to required level. NOTE. If the audio input signal is too high, distortion will result and the CLIP indicator will light. If the clip LED is lit permanently or flashes, the gain level should be reduced.
6. Protect LED. These power amplifiers feature unique DC, thermal protection circuit.

For reliable and trouble free operation, please observe the following points:

- Ensure all input / output connections are correct and secure.
- The handling capacity of the loudspeakers is adequate for the output of the amplifier.
- Always install the amplifier in a well ventilated location.
- Protect unit from severe shocks.

SPECIFICATIONS

Model	DJA 800	DJA 1600
Stereo	4Ω (2 x 250W RMS) 8Ω (2 x 165W RMS) 4Ω (2 x 415W EIA) 8Ω (2 x 245W EIA)	4Ω (2 x 550W RMS) 8Ω (2 x 350W RMS) 4Ω (2 x 800W EIA) 8Ω (2 x 560W EIA)
Bridged	8Ω (525W RMS) 8Ω (830W EIA)	8Ω (1150W RMS) 8Ω (1600W EIA)
Single channel driven	4Ω (1 x 300W RMS)	4Ω (1 x 700W RMS)
	8Ω (1 x 200W RMS)	8Ω (1 x 400W RMS)
	4Ω (1 x 450W EIA)	4Ω (1 x 900W EIA)
	8Ω (1 x 265W EIA)	8Ω (1 x 590W EIA)
Indicators	Power, Signal, Clip, Bass boost & Protect	
Damping factor	>350:1 (8Ω)	
Frequency Response	20Hz-20KHz (-3dB)	
Input Impedance	20KΩ Balanced/10KΩ Unbalanced	
Protection	Temperature, DC, short circuit	
Input Connector (per channel)	XLR, Jack Stereo 6.3mm	
Output Connector (per channel)	Speak-on connector/Binding Posts/ 6.3mm jack	
Cooling	2 x Variable Speed fans (80MM)	
Dimensions (WxDxH)	482 x 88 x 456mm (2U)	
Net Weight in Kg	12.5 kg	15 kg

Do not attempt to make any repairs yourself. This would void your warranty.

Do not make any changes to the unit. This would also void your warranty.

The warranty is not applicable in case of accidents or damages caused by inappropriate use or disrespect of the warnings contained in this manual. Studiomaster Professional can not be held responsible for personal injuries caused by a disrespect of the safety recommendations and warnings. This is also applicable to all damages in whatever form.

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