AUDIA FLIGHT

Owner's manual

FLS 8
Mono power amplifier

Dear Customer,
Audia Flight congratulates you and thanks you for choosing one of its products to set up your sound system.
The FLS8 mono power amplifier has been patiently designed with the intention of being one of the best equipment available and capable of driving any loudspeaker system on the market today. This goal has been achived using all the know-how of the brand, the application of the most powerful techniques and the use of the best components. Its production does not suffer any compromise and it has been made with extreme attention and care.
The FLS8 mono power amplifier is an unrivalled power amplifier on its category where speed, driving capability and control ability are elements close to perfection and capable of powering any speaker available on the market. You can be assured of having a device that will serve you and give you many years of musical enjoyment.
This manual is intended to advise you and help you to get from your amp the best possible.

Safety instructions

Before you start using your *FL*S8 mono power amplifier, please read the operating instructions and safety precautions outlined below.

1. Always make sure the unit is unplugged before connecting or disconnecting any other device of the audio system in case of intervention on these devices.

2. Your device comes with a three-wire power cord (AC voltage of 100 - 115 V or 230 - 245V). To prevent electrical shock, all three wires must be used. If your outlet does not accept the plug type fitted to the cord, you need an adapter and, if so, make sure it meets the required safety standards and, above all, establishes a connection to earth. If in doubt about the integrity of your electrical system call in the assistance of a qualified professional.

3. The use of an extension cord is not recommended for this product. If an extension is required, ensure its compliance with safety rules and its ability to withstand the intensity of current required to power your device.

4. Never use flammable or combustible chemicals for cleaning.

5. Do not attempt to open the device, in under no circumstances use it without removing all the packing materials or elements covering the unit.

6. Do not spill nor spray any liquids directly on the device.

7. Never push objects through openings in the unit.

8. Never remove a fuse.

9. Never replace a fuse with one of size or type than those specified.

10. Never attempt to repair the unit yourself. In case of problems, contact your dealer.

11. Never expose your device to temperatures too high or too low.

12. Do not leave electrical appliances within the reach of children.

13. Do not insert any object into the ventilation slots.

TRANSPORT AND UNPACKING

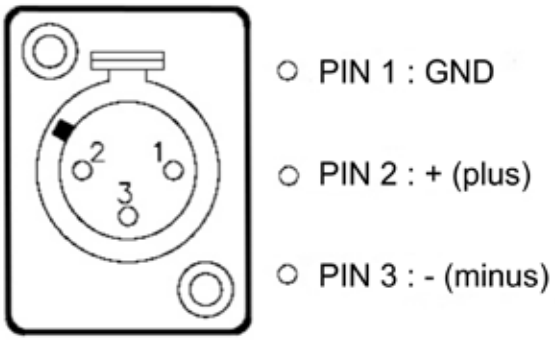
Given the significant weight of the unit, assistance of one or two other people, for port and establishment is highly recommended. Do not turn upside down the package, follow the direction of reading of entries. Before opening the package, bring it near the planned installation location for the unit.
Remove screws around the box, leave other side of the box from base.
The device is surrounded by a cover and a second envelope containing a desiccant.
The package contains the Audia Flight FLS8 mono power amplifier, a detailed instruction manual and a power cord.
We recommend you keep packaging for possible transport. In the case where the unit is packed again, be sure to try reseating all internal components. Audia Flight not be held responsible for any incident or damage resulting from poor packaging.

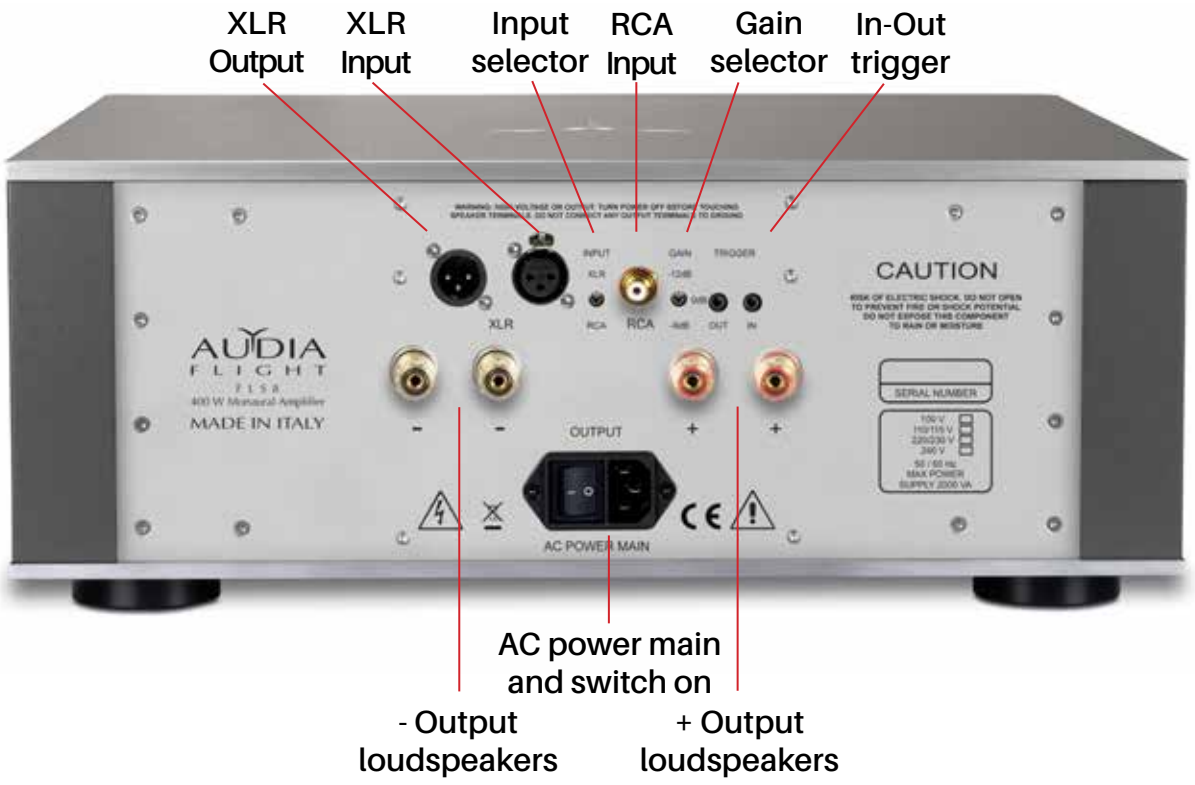
LOCATION

Choose a location that can support the heavy weight of your device. Its operating principle of dissipating heat, allow a space of at least 10 cm around the amplifier including the soil, so that its breakdown could happen naturally. Move it away from sources of heat or vibration, do not expose to direct sunlight. Make sure it is close to the speakers so that the length of the cables connecting them is as small as possible. In the case the preamplifier is not close with the FLS8 stereo power amplifier, it is preferable to use balanced interconnection cables between preamplifier and FLS8 stereo power amplifier.

INPUT CONNECTIONS

Before connecting, make sure your amplifier is unplugged or turned off and the other devices in your system.
Select the input format you will use to connect your amplifier to the preamplifier, using the switch on the rear of FLS8 mono power amplifier: XLR for balanced connection or RCA for unbalanced use. This information will appear on display.
Connect the outputs of preamp to left and right inputs of FLS8 mono power amplifier with cables terminated with the selected taps. Cables of the highest quality are recommended.
A balanced connection, that is XLR type, is recommended when cables have significant lengths.
Are present two XLR inputs per each channel, one female and one male. The male connector could be used to connect another FLS8 mono power amplifier for bi-amping connection.
The XLR male connector can be used only if the XLR input is selected.
Polarity of the pin XLR connectors is shown in the diagram below:





WARNING: HIGH VOLTAGE ON OUTPUT.
TURN POWER OFF BEFORE TOUCHING SPEAKERS TERMINALS.
DO NOT CONNECT ANY OUTPUT TERMINALS TO GROUND.

GAIN SELECTOR

In order to better match the FLS8 power amp with sources from other brands, a selector is available. It is possible to select no input attenuation (0 dB) or two input attenuation levels (-6 dB and -12 dB). This information will appear on dispaly.

OUTPUT CONNECTIONS

Connect speaker by appropriate cables to output terminals on the rear of FLS8 mono power amplifier ensuring that the polarities are the same on both power amplifiers. Terminals have colors to assist in this identification.
The insulated terminals accept all the endings: banana plugs, bare wire or fork. Ensure the reliability of each link or tighten each terminal with a cable or her fork.
The use of speaker cables of the highest quality is strongly recommended.
For each output are present a double output speakers connectors for bi-wiring connection.

COMMUNICATION BETWEEN AUDIA FLIGHT AND OTHER BRANDS

On the rear of FLS8 mono power amplifier you will find two (in and out) trigger connections in 3.5mm jack format. This connection allows devices from different manufacturers that adopted this mode of communication and equipped with the necessary circuit to control on or standby functions simultaneously.

AC MAINS CONNECTION

Make sure the mains voltage of your home system is the same for which your machine is designed. Value is printed on the back of unit. Plug power cord supplied in the power plug socket located on the rear panel of FLS8 mono power amplifier. Switch the switch on the base of the back, in the "I" position. The blue light located on front panel will lights up with a soft intensity, indicating standby state.
To go in operating mode, press the front button.
The blue light located on the front panel will lights up with a high intensity.
For stand-by mode, press the front button again.
The blue light located on the front panel will change in amber color.
To switch off your amplifier it is necessary to switch the switch on the rear panel in position "O".
For proper functioning and safety of persons and property, it is essential your system to be fitted with an effective earth connection whose absence may cause malfunction. Your amplifier and other components of system must be connected.

PROTECTIONS

For your own safety and that of the amplifier, FLS8 mono power amplifier is provided with electronic protection systems that may be involved in the following circumstances:

- excessive temperature of the output
- excessive output current (in case of short circuit or load impedance too low)
- detection of DC voltage in the output
- detection of wrong power supplies.

The intervention has a protective effect of stopping amplifier and is indicated by displaying a code in the window of the front panel indicating the nature of the intervention of protection.
In any case, turn the power off by the switch, wait a few minutes and replace operation. If the problem persists, contact your dealer or distributor.

DISPLAY ENABLING

By default display is active after switching on stand by button on front of amplifier.
If you want display to be inactive, push the stand by button for more than 8 seconds. Display will switch off until the unit will be switched off and on again.

LISTENING TIPS

Even if the device has already been run for fifty hours, during which operations and tests have been successfully passed, we advise you to continue for a hundred hours, provided that the running occurs in the presence of a signal.
During a long period of disuse, the complete turning off by the switch on the rear panel is recommended.
The FLS8 mono power amplifier is able to reveal nuances and extremely subtle details present in the recordings, we recommend to combine it judiciously and in synergy with other elements of your system, including connections. The association to the preamplifier FLS is, of course, ideal.

CARE AND MAINTENANCE

To remove dust on the unit, use a feather duster. Do not attempt to clean surfaces brushed with alcohol or any other similar solvent. Use a simple microfiber cloth, possibly moistened or dry to remove stains.
Dirt and grease on the connectors can produce sound degradation. We recommend cleaning all the contacts with isopropyl alcohol at least once every six months.

Technical data

Output power Wrms:	400/800/1500* (8/4/2 Ohm)
Inputs:	1 unbalanced RCA + 1 balanced XLR
Outputs:	1 balanced XLR
Gain:	29 dB
Frequency response:	0,3 Hz ÷ 600 KHz (1 Wrms, –3 dB)
Slew-rate:	> 160 V/us (on 8 Ohm)
THD:	< 0,05 %
S/N Ratio:	110 dB
Input impedance:	balanced or unbalanced 7.5 kOhm
Damping factor:	270 (on 8 Ohm)
Main voltage:	AC 100, 110/115, 220/230, 240 V, 50/60 Hz
Stand-by power consumption:	Less than 1 W
Nominal power consumption (no signal):	170 W
Power consumption:	840W (400W RMS @ 8 Ohm)
Dimensions and weigth:	450 x 180 x 440 mm (W x H x D) - 35 kg
Shipping dimensions and weigth:	575 x 310 x 545 mm (W x H x D) - 43 kg

*1500Wrms measured without current limitation added.

AUDIA
FLIGHT

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Made in Italy

Eng. rel. 3.0