

FS-11000E

PA POWER AMPLIFIER

INSTRUCTION MANUAL



FONESTAR

We take this opportunity to thank you for buying this product.

We recommend you read the instruction manual before switching on the machine and follow the instructions that are given. Keep the manual for future reference.

SECURITY AND THE ENVIRONMENT

ELECTRICAL SECURITY

Check that the current in the mains connection where the machine is to be installed corresponds to the power supply of the machine.

To avoid damaging the equipment, electrical shocks, fire or physical injury when you connect or disconnect the equipment from the power supply, pull the plug firmly out of the mains socket holding the plug, never the cable.

Always do this with dry hands.

Keep the power supply cable far from sources of heat. Do not put heavy objects on top of it or change it.

Clean dust and dirt off the power supply cable regularly.

Do not open the machine; you could get an electric shock.

CAUTION

While installing the machine, make sure it is switched off and unplugged.

Do not open the machine. Touching the internal parts is dangerous and you could receive an electric shock.

The machine must not be splashed or dripped on. Never place recipients with liquid inside on the machine.

Do not place anything inside the machine.

LOCATION

Place the equipment on a horizontal surface with enough space around it to allow ventilation.

Avoid direct sunlight, heat sources and excessive dust.

Do not place the machine near magnetic fields or static electricity.

Do not use surfaces which vibrate or receive impact.

Do not pile machines on top of one another.

VENTILATION

Never block or cover the ventilation slits on the machine.

Do not expose it to direct sunlight or place it near sources of heat.

PERIODS OF INACTIVITY

When the machine is not going to be used for a long period of time, disconnect it from the mains.

If you are using an adapter, take into account that it will continue using electricity even if the machine is switched off. If it is not going to be used for a long period of time, disconnect it from the mains.

THE ENVIRONMENT

To save energy, switch the machine off when you are not going to use it for a long time. The machine could contain substances that are harmful to the environment or human health. To minimize the effect of these substances the machine must be correctly managed and recycled when you decide to dispose of it.

When you dispose of it remember: it cannot be thrown into a conventional rubbish bin.

If it contains or uses batteries, these must be disposed of separately.

The machine (without batteries) must be disposed of correctly. Put it in a container specially intended for the collection of electronic and electrical appliances, at the dump or hand it over to the dealer when you purchase similar equipment, so that the dealer can dispose of it correctly (at no added cost).

SIGNIFICANCE OF THE SYMBOLS ON THE MACHINE*



The symbol formed by the expression “Class 1 laser product” written in a rectangle indicates that visible or invisible laser radiation could be produced. Avoid direct expose to the laser.



The symbol formed by a ray of lightening inside a triangle shows that the machine has connection terminals or a circuit with areas with a current which could cause an electric shock, even in normal working conditions.



The symbol formed by an exclamation mark in a triangle shows that the instruction manual must be referred to for information on how the machine works and its use.



The symbol formed by one square inside another square shows that the machine has double electrical insulation.



The European Community symbol shows that the machine complies with the current European Union legislation, as well as its transposition to local legislation.



The symbol of a rubbish bin crossed out and over a horizontal line shows that when the product is disposed of it must be done properly, placing it in a special selective electronic and electrical equipment container or through a dealer when purchasing a similar product, at no additional cost. It also shows that the machine was put on the market after 13th August 2005 (European Community Directive 2002/96/CE of Electrical and Electronic recycling, and its Spanish equivalent R.D.208/2005).

In accordance with what is set out in the aforementioned decree, FONESTAR is registered in the RAEE (Registro de Aparatos Eléctricos y Electrónicos) in a special section REI (Registro de establecimientos Industriales), with the entry number 001851.

*It is possible that some of these symbols do not appear on the machine.

EXEMPTION OF LIABILITY

The characteristics of the equipment and the content of the manual can change without forewarning.

FONESTAR, S.A. does not assume responsibilities regarding the inappropriate use of the equipment or the information supplied in this instruction manual, and specifically disclaims any implied liability for marketability or fitness for any other use.

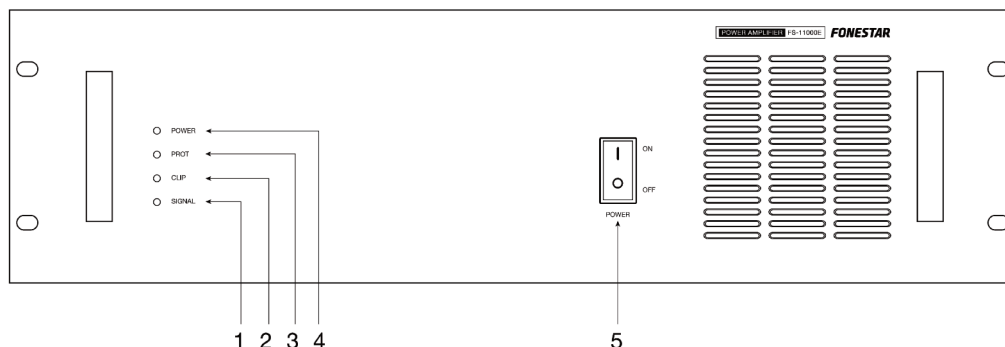
All rights reserved by **FONESTAR, S.A.**

DESCRIPTION

- Mono power amplifier 1,250 W maximum, 1,000 W RMS with low impedance loudspeaker output 4 Ω and 100 and 70 V lines. Specially suitable for PA and audio system applications.
- Two protection circuits: for temperature and short circuit in the output, activated when an anomaly is detected in the operating, cutting off the audio output to avoid damage.

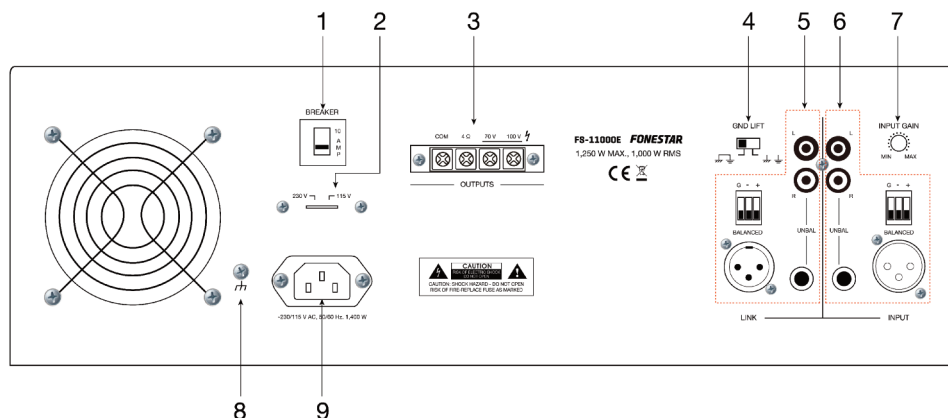
CONTROLS AND FUNCTIONS

FRONT PANEL



- 1.- **SIGNAL:** LED output signal indicator.
- 2.- **CLIP:** LED signal peak indicator. They light up when an input signal is detected with a level that is too high or when there is an excessive output level that could cause damage.
- 3.- **PROT:** LED protection indicator. It lights up when the protection is activated in the amplifier because of temperature or short circuit. With the protection activated the audio output is cut off. In this case, switch off the power amplifier, correct the causes of the fault and let the device set itself for a few minutes before switching it on again.
- 4.- **POWER:** amplifier LED power indicator.
- 5.- Amplifier on/off switch.

REAR PANEL

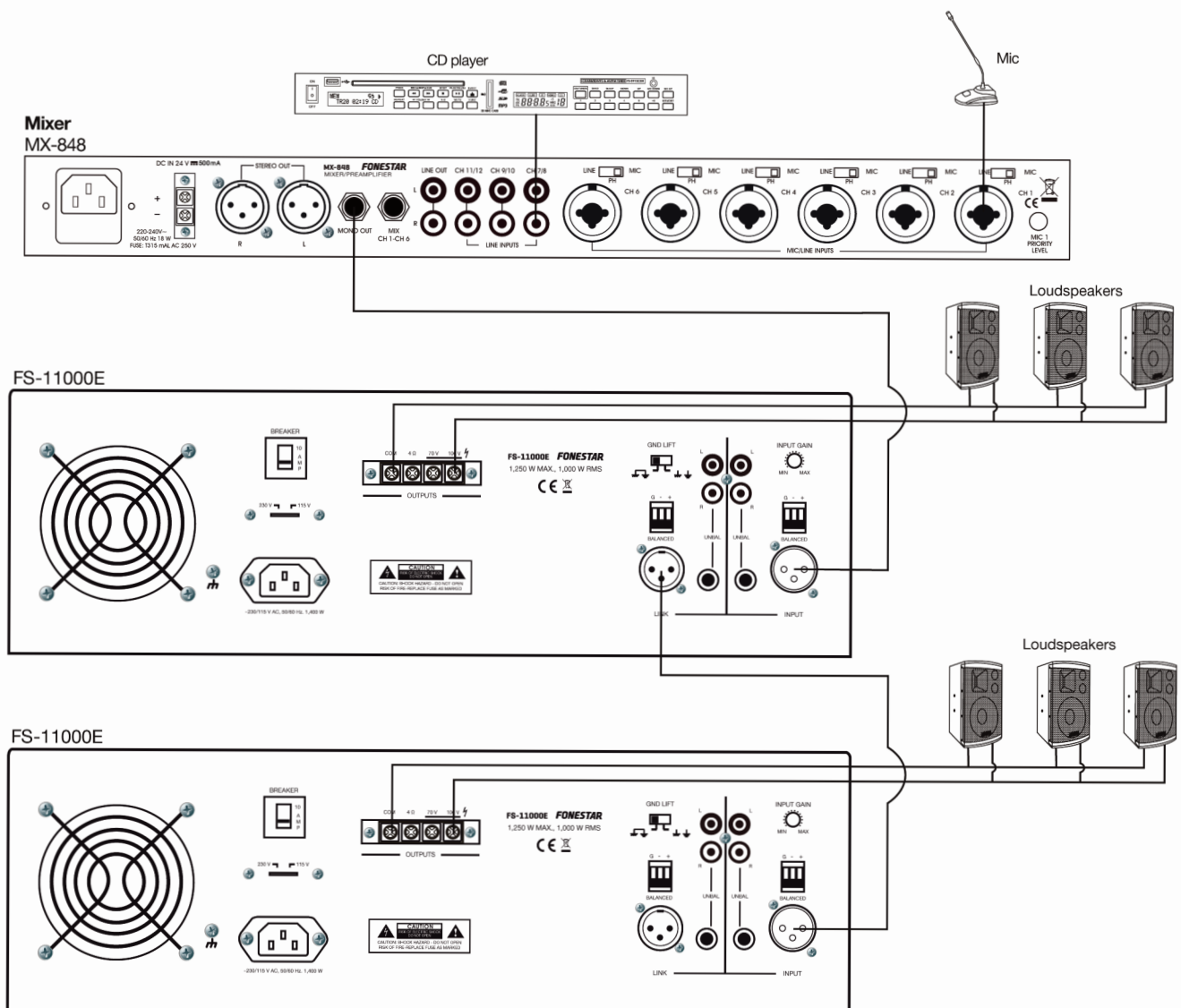


- 1.- **BREAKER:** resettable 10 A fuse. When the power amplifier is overloaded or there is a surge, the fuse will cut out to avoid damage. It is reset by pressing it.
- 2.- Power supply voltage selector.
- 3.- **OUTPUTS:** loudspeaker output terminals. To connect the loudspeakers in low impedance 4 Ω or in high impedance lines of 100 or 70 V. Connect the loudspeaker line between the COM terminal and the required impedance or line. Only use one loudspeaker output.
- 4.- **GND LIFT:** this selector is normally in the GND position (left). If the installation has ground noises, place the selector in the LIFT position (right) to disconnect the ground and the device's earth.
- 5.- **LINK:** aux line signal level output, 2 x unbalanced RCA connectors, euroblock, XLR and unbalanced 6.3 mm jack. Only use one output connector. Allows connection to another power amplifier in cascade.

- 6.- **INPUT:** aux line signal level input, 2 x unbalanced RCA connectors, euroblock, XLR and unbalanced 6.3 mm jack. Only use one input connector.
- 7.- **INPUT GAIN:** input gain control knob. It is recommended not to turn this control up to its maximum. To operate safely, set it at 3/4 of the way.
- 8.- Earth connection terminal.
- 9.- Input to connect AC power supply cable.

CONNECTION

- Connect the loudspeakers to the loudspeaker output. Use the 4 Ω low impedance output or the high impedance 100 or 70 V line output, depending on the type of loudspeakers you are going to connect. Do not use both types of output at the same time.
- If using the low impedance output, the loudspeakers must be connected in a series/parallel circuit so that the impedance load of the loudspeakers is the same as the impedance load of the amplifier's output and that the power supplied by the amplifier does not exceed that withstood by the loudspeakers.
- If using 100 or 70 V high impedance line output, all the loudspeakers must be connected in parallel and the sum of the power of all the loudspeakers must not exceed the power supplied by the amplifier.
- Once the connections have been made according to your needs, connect the equipment to the mains and switch it on. After use, do not forget to switch off and disconnect the equipment from the mains.



Example of a connection of a mixer and two power amplifiers **FS-11000E** in cascade with loudspeakers connected in 100 V line

TECHNICAL SPECIFICATIONS

	FS-11000E
CHARACTERISTICS	Mono power amplifier.
POWER	1,250 W maximum, 1,000 W RMS
RESPONSE	30-20,000 Hz \pm 3 dB
DISTORTION	Harmonic: < 1 %
INPUTS	1 balanced/unbalanced aux line, XLR, euroblock, 6.3 mm jack and 2 x RCA 10,000 Ω , 1.4 V
OUTPUTS	1 balanced/unbalanced aux line, XLR, euroblock, 6.3 mm jack and 2 x RCA
FUNCTIONS	Forced ventilation with variable speed according to the temperature LED protection, signal peak and output signal indicators
PROTECTION	2 circuits: temperature and short circuit
CONTROLS	General volume on rear panel Earth disconnection GND lift
IMPEDANCE	4 Ω and 100 and 70 V lines, screw terminals
POWER SUPPLY	230/115 V AC, 1,400 W maximum
DIMENSIONS	483 x 133 x 460 mm depth. 3 U 19" rack

WARRANTY

This product has been tested and has passed the corresponding quality control prior to being put on the market.

FONESTAR guarantees the suitability of the product for its specified use during a period of 2 years from the delivery date and commits itself to repair or substitute the goods as expressed in the Spanish law 'La Ley General para la Defensa de los Consumidores y Usuarios, Real Decreto Legislativo 1/2007 16 Noviembre.

The lack of conformity in the first six months after purchase, due to a manufacturing defect, will be rectified with no more than showing the proof of purchase. After six months **FONESTAR** reserves the right to demand proof of the product being sold with that problem.

This warranty does not include damage produced by: inappropriate use or negligence, accidents, worn out parts due to use, breakages, burns, spilt liquids or other substances, excessive humidity, battery deterioration and internal manipulation of the device, the software or its components by unauthorized persons, and in general any use that is unrelated to the nature and purpose of the product.

If any service is needed during the warranty period because of lack of conformity, please contact the business or distributor where the product was purchased in no more than 2 months after being conscious of the problem. It is only necessary to contact **FONESTAR** if it is impossible or imposes an undue burden for them to solve it.

To benefit from this warranty it is necessary to show the proof of purchase with the date clearly visible, with no corrections or crossing out

This document adds information, and never decreases the consumers' rights, which in all cases are protected by the Spanish law 'La Ley General para la Defensa de los Consumidores y Usuarios, Real Decreto Legislativo 1/2007 16 Noviembre.



FONESTAR is a member of ECOEMBALAJES ESPAÑA, S.A. "ECOEMBES", with number 03497 and all our products carry the symbol, backed by our membership and subscription to the above mentioned organization with the recycling and subsequent management of our packaging.

FONESTAR, S.A. - NIF: A28780443 - Polígono Trascueto - 39600 Revilla de Camargo, Cantabria (Spain) www.fonestar.com