



NRG SUB

800

GB ***USER'S MANUAL***

***COMPACT ACTIVE SUBWOOFER
800 W RMS MOSFET POWER AMPLIFIER
ELECTRONIC STEREO CROSSOVER
AUDIO PROCESSOR
ELECTRONIC LIMITER***

DESCRIPTION

The **NRGSUB 800** is a very compact and innovative subwoofer that can ensure an absolute sound quality in any use conditions.

It incorporates a powerful and reliable **800 Wrms** power amplifier with **MOS-FET** technology designed for making a dynamic and clear sound, along with a music quality without equal.

The dynamics of trasducer is maximized by the **AUDIO SIGNAL PROCESSOR** and the **ELECTRONIC LIMITER** and it at the same time protected from signal peaks and distorsion wich could compromise its lenght.

Thanks to the trasducers quality, the high technological content of its incorporated power amplifier, the **NRGSUB 800** meet the strict demand of PA system as bass frequency reinforcement system.

On the top of the cabinet there is a top hat on which insert a standard stand for acoustic speaker.

USE OF BALANCED INPUTS

NRGSUB 800 inputs are **BALANCED 3 poles XLR CANNON type**.

Balanced connection is studied to have a better rejection against the noise that wires (if very long) takes from external interferences.

Most of professional audio equipment have balanced outputs, you can use however non balanced connection with **mono JACK** (or **3 poles CANNON** with **pin 3 connected to pin 1**) the **NRGSUB 800** will work normally, but it will be more sensitive to external interferences.

LINK outputs are paralleled with inputs, so they are balanced/sbalanced like the inputs.

XOVER outputs are always **BALANCED** type.

USE OF CROSSOVER AND LINK / XOVER OUPUTS

Internal crossover can be utilized in **STEREO mode**; connecting the two inputs L - R and their outputs, or in **MONO mode**; connecting only the R (MONO) input and its relative outputs (see fig. 1).

The crossover outputs can be **LINK** or **XOVER types**;

- **LINK OUTPUT** is nothing else that the paralleled input signal, it can be used to give the save signal to another speaker system.

It can be used to have a reinforcement on bass frequency, the speaker system connected to the **LINK output** will reproduce the full range of frequency. If the speaker system does not can handle bass frequency or you hear dangerous distorsions, is preferred to use **XOVER** output.

- **XOVER OUTPUT** allows to exclude from the output signal all bass frequency range (< 125 Hz).

It can be used to have the best sound clearness and an higher sound pressure in the mid/high frequency. The sound system connected to the **XOVER** ouput will reproduce only the mid/high frequency range (> 125 Hz).

To have an higher sound pressure in bass frequency, is preferred to use **LINK** output.

USE OF INPUTS LEVEL

Volume knob adjust the input level of the two inputs and control only the subwoofer level, the volume of **LINK** and **XOVER** outputs are unchanged.

Is preferred to use this control to have the right compromise between the bass frequency generated from subwoofer and the rest of sound system.

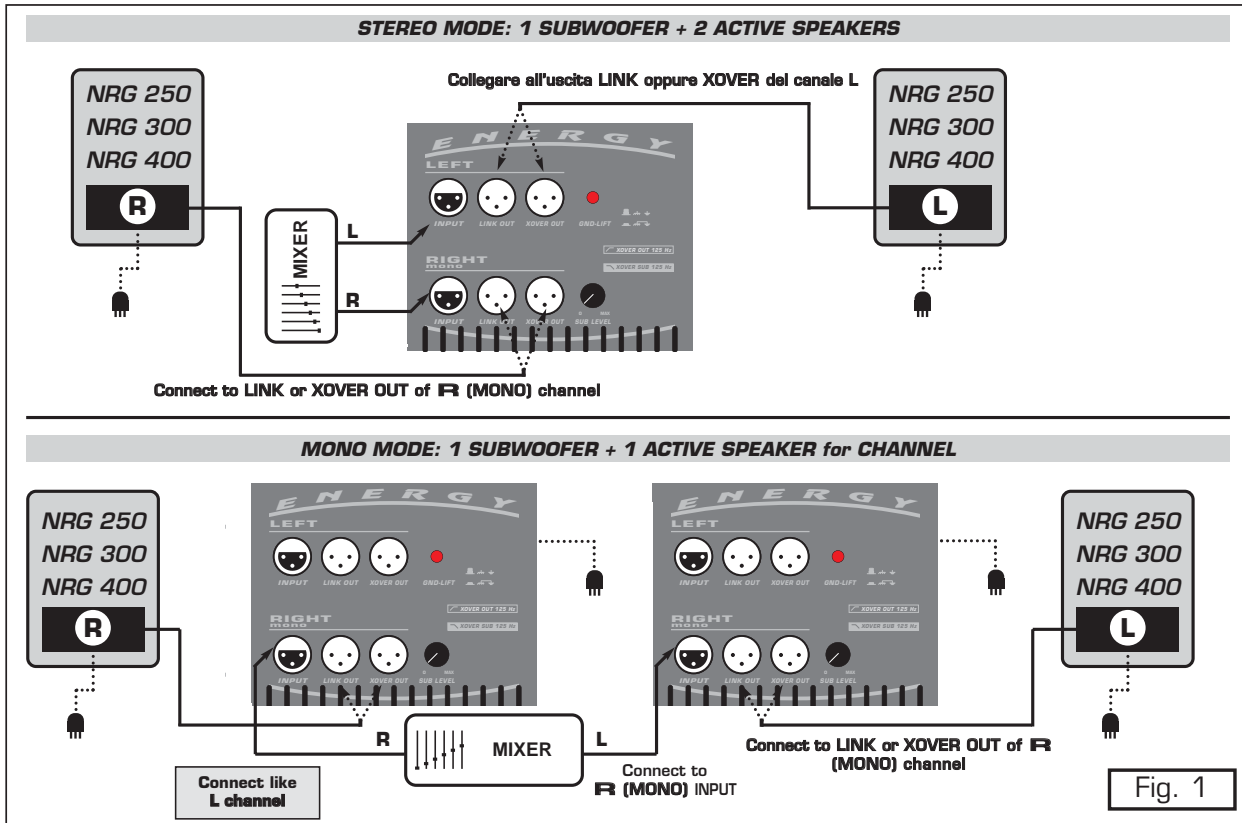
The sound level can vary, it depend of the type of sound systems and connections (balanced/sbalanced - link/xover).

The internal electronic limiter will always protect the loudspeaker and the amplifier from dangerous input signal levels.

USE OF KEY GND-LIFT:

Switch for the electrical separation between the ground circuit and the earth circuit; in the "■" position, the input signal ground is electrically disconnected from the earth circuit, in the event the speaker develops a buzz, this position provides for opening the "ground rings," that are often the cause of such interference. In the "■" position, the input signal ground is electrically connected to the device's earth circuit.

USE THE GROUND LIFT FOR BALANCED SIGNALS ONLY.



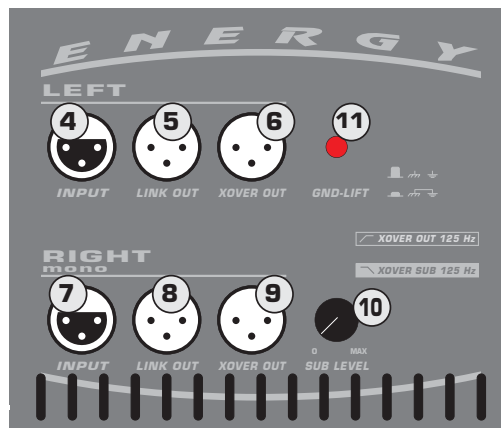
DESCRIPTION OF REAR PANEL AND CONNECTIONS

- 1) Power supply 230 Vac 50 Hz
- 2) Power switch with lamp (0-1)
- 3) Protection fuse
- 4) Balanced line input **LEFT**
- 5) Balanced line output **LEFT - LINK** (without crossover cut)
- 6) Balanced line output **LEFT - XOVER** (with crossover cut)
- 7) Balanced line input **RIGHT** or **MONO**
- 8) Balanced line output **RIGHT - LINK** (without crossover cut)
- 9) Balanced line output **RIGHT - XOVER** (with crossover cut)
- 10) Input level adjustment (L+R)
- 10) Key **GND-LIFT**

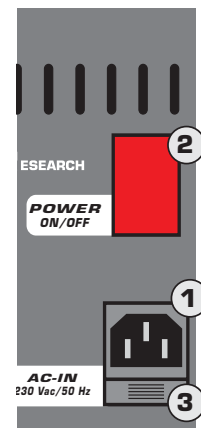
NOTE: In case of internal amplifier over-heating, the heat-protection turn off the system, when the temperature return to normal level, automatically the protection turn on again the system.

If the input signal level is higher than +10 dB the electronic limiter lose his effect.

Input level higher than +10 dB can damage the speaker system.



Rear panel up



Rear panel down

DATI TECNICI CASSA ACUSTICA

Type	Bass-Reflex
Built-in amplifier	800 Wrms
Frequency response	29-125 Hz
Sensitivity (1w/1m)	101 dB
Electronic Crossover	125 Hz - 24db/oct
Low frequency woofer	1 x 18"
Input connectors	2 x XLRM
Output connectors	2 x XLRM Flat/2 x XLRF Xover
Dimension (H x W x D)	530 x 695 x 560 mm
Net weight	38 Kg

TECHNICAL SPECIFICATION AMPLIFIER

Type	AB class mosfet with audio signal processor
Output power	800 W R.M.S. / 4 Ohm
THD	0,1 % at 1 Khz
Frequency response	20 - 50.000 Hz
Input sensitivity	0 dB
Input impedance	10 KOhm

TECHNICAL SPECIFICATION STEREO CROSSOVER

Type:	Electronic - low noise - stereo
Cut frequency:	125 Hz - 24 dB/oct.
Inputs:	Balanced - 2 x XLRF (stereo/mono)
Outputs:	Balanced - 2 x XLRF Flat + 2 x XLRF Xover 125 Hz

PROTECTION

Electronic limiter on the input signal (max +10 db)
Protection fuse on power supply (1 x 4AF)
Double protection fuse on power amplifier (2 x 8AF)
Self-resetting thermal fuse on transformer and power amplifier



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