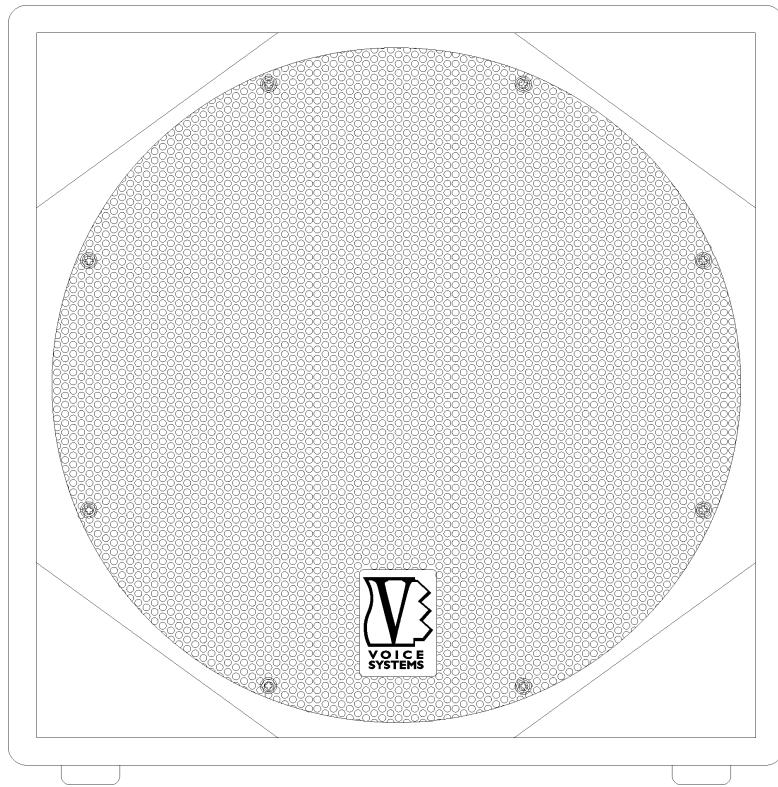


BEE Sub

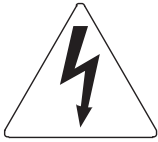
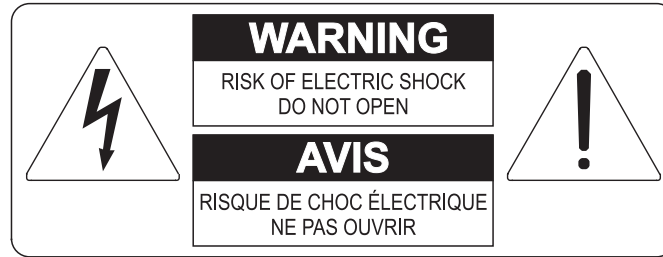


Manuale Operativo

Operating Manual

IMPORTANT SAFETY INSTRUCTIONS

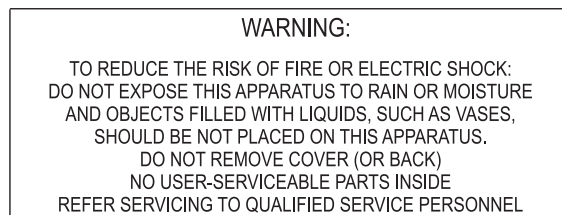
WARNING: READ THIS FIRST!



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS”

WARNING:

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit in to your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold, with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



NOTE: The socket-outlet shall be installed near the equipment and shall be easily accessible.

SAVE THESE INSTRUCTIONS

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IMPORTANT NOTES

LOOKING AFTER THE PRODUCT

- Never apply excessive force to the structures or controls (knobs, switches).
- Do not stress the speaker in transit or during use.
- Do not place the device close to heat sources, in damp or dusty places or close to strong magnetic fields.
- When possible, do not place the speaker close to units which generate strong interference, such as radio and TV sets, monitors, etc.
- Never insert foreign bodies or liquids of any kind inside the device, for any reason.
- Clean using a soft brush or an air jet only; never use detergents, solvents or alcohol.
- When disconnecting leads from sockets, always take hold of them by the connector and not by the lead itself, and when winding take care to avoid knots or twisting.
- Do not expose the speaker to direct sunlight.

CONNECTING TO THE MAINS

- To avoid the risk of electric shock, do not make connections with wet hands.
- Make sure that the mains voltage is the same as that indicated on the control panel (above the mains switch).
- Connect the speaker to a mains socket with earth contact.

CONNECTING TO A MIXER

- Always use good quality screened cables.
- Before making the connections, check that all the speakers you are about to connect are switched off. You will avoid noisy, if not hazardous, signal peaks.

DESCRIPTION

IN GENERAL

The **BEE Sub** is a new speaker unit created by VOICE SYSTEMS for the use of portable amplification systems, monitoring systems and fixed installations in the most widely varying situations.

Thanks to a 250W (IHF) amplifier combined with a processor, and the use of tough, lightweight materials for construction of the cabinet, the **BEE Sub** allows unlimited versatility in use.

BEE Sub as well all other loudspeaker of the serie **BEE** are easy to use and to carry. These setups are ideal for various installation: either for a piano-bar or for fixed installation in all room.

THE CABINET

The cabinet is built in plywood, clad throughout with scratch-proof paint and protected on the front by a solid metal grille. This tough, compact structure guarantees the reliability of the **BEE Sub** even in the most critical situations.

AUDIO QUALITY

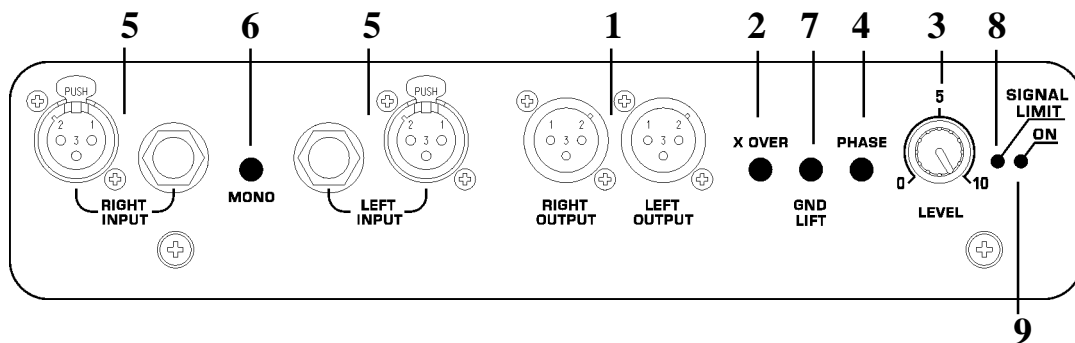
The **SHARK SB15** broadcasts the signal by means of speakers built to VOICE SYSTEMS specifications with carefully selected, quality-controlled materials. **BEE Sub** has been studied in order to provide a linear response also at the high frequencies granting at the same time an high sound pressure and an extremely clean sound.

BEE Sub is equipped with a 10" high power loudspeaker with a bass-reflex configuration whilst the 250 W (IHF) amplifier is equipped with an anti-clipping circuit.

Furthermore, thanks to the cross-over filter, the outputs suit very well to other loudspeaker. It will be possible to send out signals passing through the crossover and signals not passing through the crossover at frequencies lower than 150 Hz. This is very useful when the loudspeaker connected to the **BEE Sub** are not suitable for too low frequencies. In such a case you can also use **BEE Sub** as an EXTENDED SUBWOOFER enlarging the bass sounds.

This allows the **BEE Sub** to perfectly fit with all other loudspeaker of this serie creating efficient installations with a response till the lowest frequencies (40 Hz).

CONTROLS AND CONNECTION



N.B.: the drawing refers to the the controls and connectors on the metal back panel.

1. **Jack-XLR OUTPUT LEFT/RIGHT:** These are Jacks and XLR balanced outputs in order to send the signal of the INPUTS (also if passing through the cross-over).
2. **OUTPUT XOVER-FLAT switch:** switch on or off for the cross-over filter on the output signals of the Outputs. In the Off position the signals with frequencies lower than 150 Hz will be filtered only when eventual other loudspeaker connected to **BEE Sub** will not support these frequencies. In the On position will be sent out non-filtered signals.
3. **LEVEL trimmer:** trimmer for regulating the level of the signal reaching the power amplifier, to allow it to be adapted to the level of the sound source connected.
4. **PHASE 0° - 180° switch:** through this switch you can invert the phase of the signal on woofer.
5. **Jack-XLR INPUT connectors:** Jack-XLR input connectors for connection of the signal to be amplified.
6. **L/MONO - STEREO switch:** in order to send a mono signal to the **BEE Sub** you have to push this switch using in this way only the Jacks and/or XLR INPUT LEFT and disconnecting the INPUT RIGHT connectors. Release this switch if the input signal is stereo so that you may utilize both input sections.

N.B.: if you utilize a mono signal connected only to the INPUT LEFT connectors without having selected the right configuration through the above mentioned switch, the amplifications of the signal will be cutted by half.

7. **GND LIFT switch:** switch which allows the amplifier ground to be disconnected from the chassis. However, the speaker ground connection remains unchanged. This is useful in situations where ground loops occur, causing hissing if more than one device is connected to the same power supply socket.

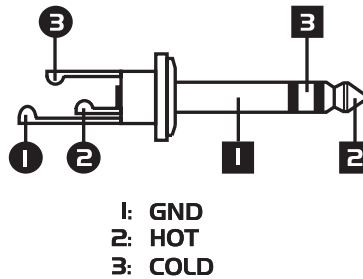
- 8. **LED LIMIT:** when this LED is on, it shows the intervention of the limiting device as the level of the signal is over the safety limit.
- 9. **ON LED:** indicates that the speaker is receiving power.

Power supply input: Is on rear panel the input power connector to the net cable supplied from the factory with the loudspeaker. Internally this input is fitted with a fuse (T2AL for the 250VAC version ---T4AL for the 120 VAC version) that can be taken out with a screwdriver opening the wicket.

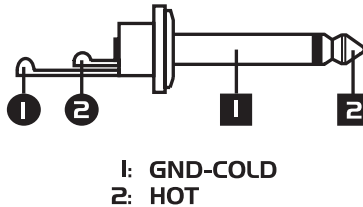
ON/OFF switch: On rear panel the switch for on/off switching of the *BEE Sub* .

USE THE RIGHT CONNECTORS..

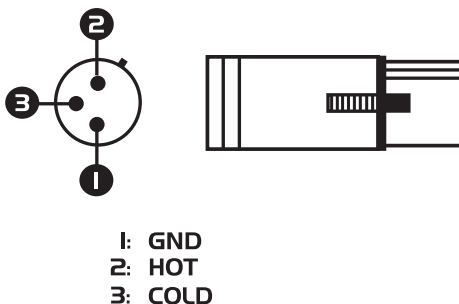
BALANCED TRS Jack connector



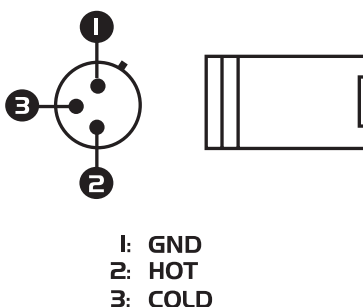
UNBALANCED TS Jack connector



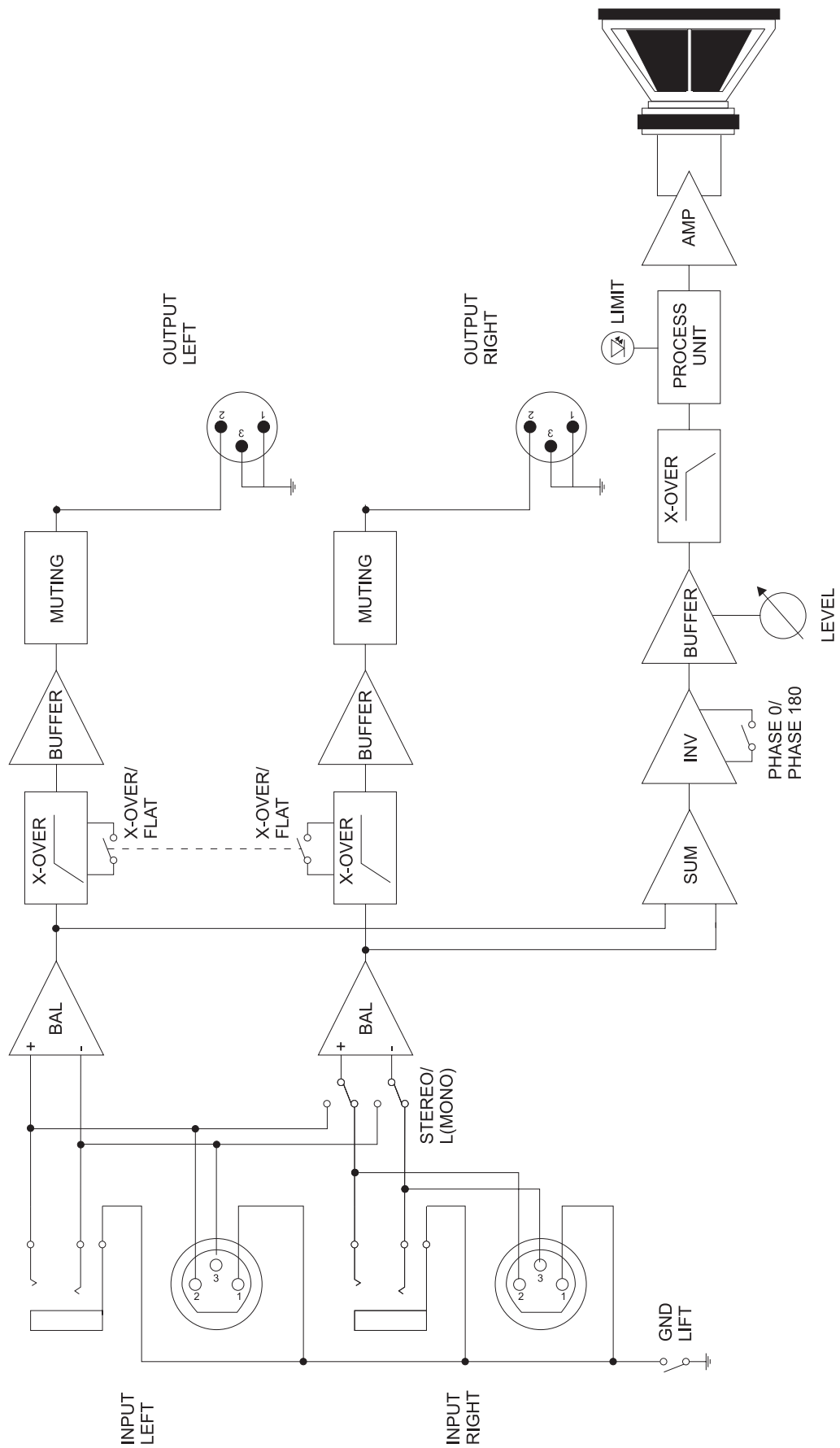
BALANCED XLR-F connector



BALANCED XLR-M connector



BLOCK DIAGRAM



TECHNICAL SPECIFICATIONS

Max output power (1KHz, THD 1%):	250 W
Distorsion:	< 0.03 % @ 20 Hz -20KHz
Input impedance:	10 K Ω
Input sensibility:	0 dB (0.775 V)
Power supply:	check the label on the rear panel
Sensibility (SPL 1W/1M):	98 dB
Max SPL:	119 dB
Frequency response:	40 Hz – 120 Hz (+- 5 dB)
Cross-over frequency:	150 Hz @ 12 dB/ott
Components:	10" Custom Woofer
Construction and finish:	Case in plywood ultra light with highly resistant paint finish. Metallic grid protection. Stand adaptor, professional handles.
Controls:	Volume, Cross-Over Frequency, Phase Reverse, Monophonic input select, GND Lift
Connections:	Input: 2 Jack – 2 XLR-F Output: 2 XLR-M
Dimensions (WxHxD):	330 x 330 x 500 mm
Weight:	17,5 Kg

FCC RULES

NOTE: This equipment has been tested and found to comply with the limits for a **Class B** digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced Radio/TV technician for help.

The user is cautioned that any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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