

SUBSON

IMPORTANT SAFETY INFORMATION

Explanation of symbols used in this manual and on the product:



This symbol is intended to alert the user to the presence of uninsulated dangerous voltages within the enclosure of sufficient magnitude to cause electric shock.



This symbol is intended to alert the user to the presence of important maintenance and servicing information in the instruction and service manuals.

WARNING

SHOCK HAZARD. DO NOT OPEN.

TO AVOID THE RISK OF ELECTRIC SHOCK DO NOT REMOVE THE BASS DRIVER, OR THE AMPLIFIER ON THE BOTTOM SIDE OF SUBSON.

NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH THE CORRECT TYPE OF FUSE (1 ADDITIONAL FUSE FOR REPLACEMENT IS INCLUDED).

DISCONNECT AC POWER CORD BEFORE CHANGING FUSE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

PLEASE READ THE FOLLOWING SAFETY INSTRUCTIONS VERY CAREFULLY BEFORE OPERATING SUBSON:

1. HEED WARNINGS. Observe all warnings on the subwoofer and in the operating instructions.

2. FOLLOW INSTRUCTIONS. Follow all operating and use instructions.

3. DAMAGE REQUIRING SERVICE. The product should be serviced by qualified personnel if:

- a) The product does not appear to operate normally or exhibits a marked change in operation.
- b) The power cord or plug has been damaged.
- c) Objects or liquid have fallen into the product.
- d) The product has been exposed to rain.
- e) The product has been dropped or the enclosure damaged.

4. SERVICING. Do not attempt to service SUBSON beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

5. INDOOR USE. SUBSON is designed for indoor use in dry, domestic environments only, and for use within a temperature range of 10 - 40 ° C (50 – 105 ° F).

6. OBJECTS AND LIQUID ENTRY. Do not let objects or liquids fall into the product. Do not place a vessel containing liquid on top of the product.

7. WATER AND MOISTURE. Do not use SUBSON near water, for example near a bathtub, or in a wet basement, or near a swimming pool.

8. WALL OR CEILING MOUNTING. SUBSON is neither suitable for mounting into the wall, nor for mounting on the ceiling, since one of the aluminium parts is working as heatsink. If you choose a position on the wall or on a shelf for SUBSON, the subwoofer must be firmly secured into position. Otherwise the subwoofer could fall down because of vibrations causing it to move, or “walk.”

9. VENTILATION. Site the subwoofer so that its location or position does not interfere with its proper ventilation. Especially the rear of SUBSON should be uncovered, since the heat sinking is mounted on the inner side of the rear plate of the cabinet. The subwoofer should not be placed in a built-in installation, such as a bookcase or cabinet, that may impede the flow of air.

10. HEAT. Site SUBSON away from heat sources such as radiators, heaters, stoves, or other appliances (including amplifiers) that produce heat.

11. POWER SOURCES. Connect the subwoofer to an AC power outlet only of the voltage type marked on SUBSON (this will vary depending on the voltage in the country of sale and use).

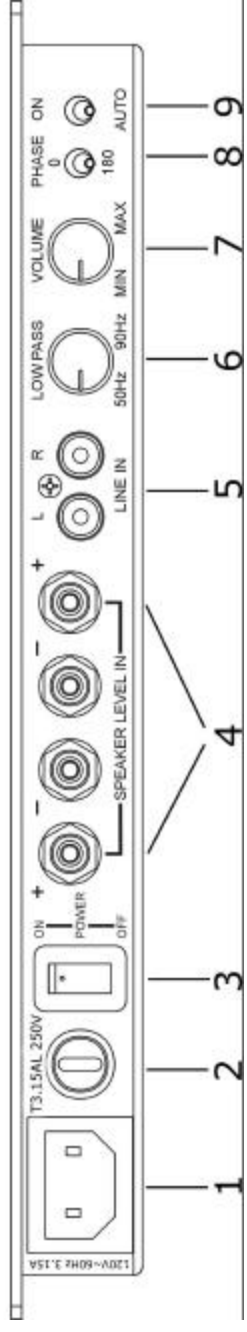
12. POWER CORD PROTECTION. Route power cords so that they are not likely to be walked on or pinched by items placed upon or

against them, paying particular attention to cords at plugs, power sockets, and at the point where they exit from the subwoofer.

13. LIGHTNING STORMS. Unplug SUBSON during lightning storms or when unused for long periods of time.

14. CLEANING. The product should be cleaned only as recommended later in this instruction manual.

15. RETAIN INSTRUCTIONS. Retain the safety and operating instructions for future reference.



1 power cord input

2 fuse socket

3 power switch

4 high level inputs: to derive signal from the loudspeaker outputs of an amplifier using speaker cables for the connection, in cases where the preferred chinch input is not feasible.

ATTENTION: Please ensure the correct polarity (consistency of plus and minus) when connecting to the high level inputs!

5 chinch or RCA phono inputs: to derive signal from preamplifier or subwoofer outputs. The preferred method for connection of SUBSON.

ATTENTION: It does not matter, if you put the chinch cable into the left or right input (normally you only have one cable in your home theater, coming from the subwoofer channel).

6 adjustable crossover frequency control: crossover point for subwoofer is tuned according to the bass characteristic of your main loudspeakers and room acoustics.

7 volume controller: to adjust overall output of SUBSON

8 phase switch: critical adjustment to the phase characteristic of SUBSON in relation to the bass region of the main, as well as center and surround, loudspeakers; essentially aligns the timing of all of their output signals. Choose the switch position that results in more bass by testing with several bass-heavy music tracks.

9 on position: SUBSON always on
auto: SUBSON turns on when music is detected

Recommended: AUTO switches off the subwoofer after 15 minutes without a music signal. When music is played again, SUBSON returns to play mode automatically.

HOW TO PREPARE SUBSON FOR OPTIMAL SOUND PERFORMANCE:

1. To avoid fingerprints on the aluminium, please put on the enclosed gloves when positioning SUBSON.
2. Connect SUBSON to your signal source by using the chinch or RCA phono cables. Alternatively, the SPEAKER LEVEL IN inputs can be used for signal connection. Using speaker wire, simply connect to the subwoofer from the main speaker output terminals of the main system amplifier.
3. Connect SUBSON to AC power outlet.
4. Turn the POWER switch on.

ATTENTION:

Do not be concerned if the LED does not glow immediately. In the recommended AUTO position, the LED only glows when a music signal is detected, at that time the subwoofer automatically turns on.

5. For best sound performance, it is very important to adjust SUBSON using the following steps. It may be helpful to have one person assist by adjusting the controls, while another remains in the listening position to guide the adjustments being made.

Start with the controls in the following positions:

Crossover frequency: middle position (LOW PASS knob)

Volume: start at the middle position (12h) (VOLUME knob)

Phase: 0° (PHASE switch)

6. Listen: While playing music that has an abundance of consistent low bass, adjust the output level of SUBSON until both the main speaker's and the subwoofer's bass are clearly audible. [Attention: It may be necessary, and in fact normal, that you have to turn the VOLUME control close to, or even at, its maximum level. The gain structure of the SUBSON was developed to produce the best sound,

and that it may be necessary to adjust the VOLUME knob to its maximum level.]

Then, check for phase consistency by switching from 0° to 180° using the PHASE switch. Leave the PHASE switch in the position that achieves clearly louder bass output.

7. If SUBSON is not loud enough, it is possible that your main loudspeakers do not supply enough mid-bass. In that case the crossover frequency point (LOW PASS knob) may need to be adjusted to the highest frequency (90 Hz), in order to achieve maximum mid-bass output from the subwoofer.

8. If SUBSON was loud enough (before step 7), turn the crossover (LOW PASS knob) towards the lowest frequency (50 Hz) and readjust the output volume to the point where the main speakers and the subwoofer are balanced or equal in output. At this point, slowly raise the crossover frequency (LOW PASS knob) until a seamless integration, or transfer of output, between main speakers and subwoofer is achieved.

General setup tip:

It is usually best to crossover as low as the bass characteristics of the partnering loudspeakers sited in the room will allow. This will result in achieving the lowest possible bass extension. However, one of the advantages of the installation of a subwoofer is the ability to tailor the bass output of the system to the needs and tastes of the listener. Therefore, feel free to experiment with a variety of settings until one is found that is satisfactory.

ACCESSORIES:

POWER CORD: 1 pc.

FUSE: 1 pc.

For replacing the fuse inside the socket (rear side of SUBSON).

GLOVES: 2 pcs.

For protecting SUBSON against fingerprints.

MAINTENANCE:

Your subwoofer cabinet can be cleaned periodically with a soft, damp cloth. Do not use any chemical detergents. Should spots or stains appear, clear water can be used to gently remove them.

Should the bass driver become dusty, it is safe to use a soft brush or cloth to clean the woofer.