

AE SUB

OWNER'S MANUAL



ACOUSTIC ENERGY
for the love of music

Introduction

Congratulations on choosing the Acoustic Energy AE SUB - a powerful, active subwoofer which is capable of outstanding Hi-Fi and Home Cinema performance.

Please take a few moments to read this manual. The advice it contains will enable you to get the very best performance out of your Acoustic Energy subwoofer.

The AE SUB is capable of handling 250 watts with a clean bass response extending to 26Hz in the listening environment. Flexibility in its operation and connection mean the AE SUB will compliment a wide range of high-quality hi-fi and home cinema systems.

Correctly installed the sense of power and weight of it's bass output can add substantially to the enjoyment of high quality music and prove indispensable for thrilling and realistic home cinema sound.

Safety

Please read all operating and safety instructions before use retaining them for future reference. Adhere to all warnings on the product or in this manual.

Power Sources

The subwoofer should only be connected to a power supply of the type described on its rear panel. If you are not sure consult your dealer or a qualified electrician.

Power Cord

Power supply cords should be routed so as not to be walked on or caught under or against items.

Ventilation

To ensure reliable operation and to prevent the subwoofer from overheating, ensure good ventilation. Do not cover the subwoofer and do not place closer than 10cm from walls or soft furnishings. Do not use in a built-in installation unless proper ventilation is provided.

Water and Moisture

The subwoofer should not be used near water, i.e. near a wash-bowl, basin, in a wet basement or swimming pool area.

Temperature

The subwoofer may not function correctly at extremely low or freezing temperatures. The Subwoofer should also be kept away from heat sources such as radiators or other electrical equipment that produces heat, including other amplifiers.

Electric Shock

Care should be taken so that objects are not inserted in connectors or other apertures and that liquid does not spill into the enclosure. Do not insert objects into the reflex port. Never attempt to dismantle the subwoofer as serious electric shock might occur if the internal parts are touched.

Cleaning

Unplug the subwoofer from the wall power outlet before cleaning. Use only a clean, dry cloth. Do not use cleaners, liquids or solvent based preparations to clean the cabinet.

Smells

If an abnormal smell or smoke is detected, immediately turn the power off and unplug the subwoofer from the wall power outlet.

Operation

1. Crossover Frequency Knob

Adjusts the balance at the crossover point between the bass (low frequencies) from the AE Sub and the main stereo front speakers.

2. Sub Level Volume Control Knob

Adjusts the volume level output of the subwoofer, allowing you to balance the volume of the AE Sub to blend in with your main stereo speakers. Turning the knob clockwise increases the volume level and turning it anti clockwise decreases the volume level.

3. Auto Power Indicator

The auto function places the subwoofer in 'standby' mode (red light). The subwoofer is automatically turned on when a signal is detected (green light).

4. Phase indicator

The normal setting for the phase switch would be the 0° position. Switching to 180° will change the subwoofer phase and vary the tonal quality of the bass, which is also dependent on the location of the AE Sub relative to your main stereo speakers.

5. Input / Line In (RCA)

Used to connect the subwoofer to the pre-out socket on the amplifier.

6. LFE In (RCA)

Used to connect the dedicated LFE subwoofer line output on the amplifier.

7. High Level Inputs

Used to connect to amplifier speaker outputs.

8. Power Input

Connect the cord (supplied) to a 110-120v or 220-240v AC mains power outlet.

9. Power Switch

Use the switch to turn the power on / off.

Rear Elevation

ACOUSTIC ENERGY
for the love of music

AE SUB

250W RMS Powered Subwoofer

Designed and Engineered in England by
Acoustic Energy Loudspeakers Ltd.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

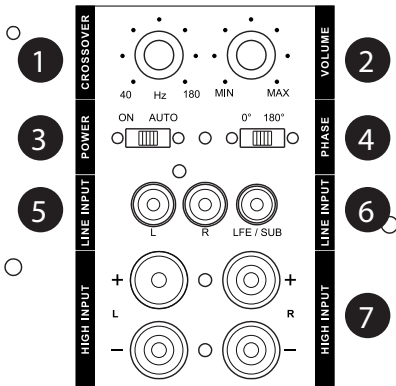


WARNING: SHOCK HAZARD-DO NOT OPEN
AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR

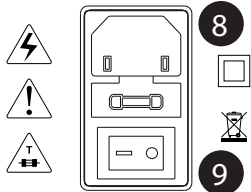
CAUTION
DISCONNECT SUPPLY CORD BEFORE REPLACING FUSE
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE
REPLACE ONLY WITH SAME TYPE FUSE.

FOR INDOOR USE ONLY

Made in China.



CE UK CA



AC 90V-260V / 50-60Hz
T 6.3A / 250V
CONSUMPTION 300W

Positioning

The AE SUB subwoofer is virtually omni-directional, so it can be positioned in almost any location in the same room. For the best performance in the ideal room the AE SUB should be positioned in a corner of the room or near a back wall. In certain circumstances the addition of a second AE SUB located in another position in the same room helps to achieve a more uniform bass.

The subwoofer should be installed using the four rubber feet or spikes with lock nuts, both supplied.

Once positioned correctly ensure space is left to the rear of the AE SUB since all operation switches are on the rear panel.

Connections

Check that both your amplifier and subwoofer are switched off before connection. Failure to do so may result in damage to your amplifier or subwoofer. It is sometimes recommended that over-long low cost cables are used initially to facilitate experimentation with the positioning, and only then purchase and install using the final cable choice.

For use with amplifiers having a subwoofer output jack

Connect from the dedicated subwoofer line output on the amplifier to the line input(s) on the AE SUB (a single lead to either input or a 'Y' connector to both inputs may be used).

For use with amplifiers having a LFE output

Connect from the dedicated LFE subwoofer line output on the amplifier to the LFE input on the AE SUB using a single RCA - RCA cable.

For use with amplifiers having Line Level pre-amp jacks

The pre-amp outputs of your amplifier can be connected to the line-level inputs on the AE SUB. The line level outputs on the AE SUB are then connected back to the power amp (main) inputs on your amplifier.

For use with amplifiers without a dedicated subwoofer output

Connect the subwoofer via the 'B' or second speaker output. Be sure your receiver can run both 'A' and 'B' speakers simultaneously.

How to use the controls

How to use the SUB VOLUME CONTROL knob, CROSSOVER FREQUENCY knob and PHASE switch.

The VOLUME CONTROL, FREQUENCY knob and PHASE switch can be adjusted to match the condition of the listening room and/or the characteristics of the left and right speakers.




Due to the positioning of the subwoofer in the room and the associated room boundaries along with the available bass response from the existing speakers, the actual settings on the subwoofer control panel will vary considerably.

The SUB VOLUME CONTROL and the CROSSOVER FREQUENCY knobs should be used together when setting the correct bass response required. For example, raising the volume level will also raise the effective system crossover point, while reducing the volume has the converse effect of lowering the frequency range of the subwoofer. This is caused by the way the various responses and outputs blend together in the listening environment.

Initially set the crossover frequency fairly low, e.g. 50-60Hz, and use the volume control knob on the sub to set the low bass level required. When the correct balance is almost achieved, the crossover level and volume level maybe adjusted together to fine tune the sound and achieve the cleanest, most extended and suitably powerful bass.

The ideal is for a seamless blend of extended low bass from the subwoofer leaving the clean upper bass response of the stereo system largely undisturbed.

Typical Control Positions

Front speaker	Crossover	Phase	Sub Level
Large Speaker	40 - 60Hz	Normal 0°	
Medium Speaker	60 - 80Hz	Normal 0°	
Small Speaker	80 - 100Hz	Normal 0°	

Caution

An excessive input level to the subwoofer may impair the sound quality or damage the unit. Do not increase the output of the amplifier to a high level while the low-frequency level is enhanced by the amplifier's tone control or loudness control.

Warranty

Your Acoustic Energy subwoofer is guaranteed against original defects in materials, manufacture and workmanship for 2 years from the date of purchase. Please retain all original packaging materials for possible future use.

If you register your Acoustic Energy AE SUB online via our website (acoustic-energy.co.uk) we will extend your guarantee, free of charge, to three years. This applies in the United Kingdom only.

We suggest that you complete the details of purchase now and keep this information in a safe place for future reference.

Under this warranty Acoustic Energy agrees to repair any defect or, at the company's discretion, replace the faulty component(s) without charge for parts or labour.

This warranty does not imply any acceptance by Acoustic Energy Loudspeakers or its agents for consequential loss or damage and specifically excludes fair wear and tear, accident, misuse or unauthorised modification.

This warranty is applicable in the United Kingdom only and does not in any way limit the customer's legal rights. Claims and enquiries under the warranty for AE products purchased outside the UK should be addressed to the local importers or distributors.

If you have reason to claim under the warranty please contact your dealer in the first instance.

Dealer's name:

Date of purchase:

Serial number(s):

Acoustic Energy
Units 1 - 3, Trull Farm
Trull, Tetbury
Gloucestershire
United Kingdom
GL8 8SQ

+44 (0) 1285 654432
info@acoustic-energy.co.uk

www.acoustic-energy.co.uk

ACOUSTIC ENERGY
— *for the love of music*