

Owner's Manual

DLS On-wall speakers

Flatsub 8.2



audio for Life

since 1979

Introduction!

Please read this manual fully before unpacking and installing the product. It will help you to optimise the performance of your speakers.

Unpacking and maintenance

Your speaker should be treated with the same care you would treat a piece of furniture. Use only a piece of soft cloth to clean the loudspeakers. After unpacking, we suggest you retain all packing material for future transports.

Running-in period

The performance of the speaker will change subtly during the listening period. Please allow your new speakers to play about 20 hours of music at normal listening level before doing any critical listening.

System

DLS Flatsub 8.2 is an efficient, active subwoofers with a built-in 250 W digital power amplifier. The loudspeaker unit is a specially developed, 8", long-stroke woofer with a powerful magnetic system.

DLS active subwoofers are designed to interact with Hi-Fi equipment, surround installations and multi-media systems. The subwoofer allows great freedom in placement. With the control you can adjust phase, cross-over frequency and level, which makes it easy to adjust for the acoustics in your listening room.

Connecting power supply

The switch **POWER**(2) is the **ON / OFF** switch for the subwoofer. The **POWER** switch(2) "**OFF**" position is used when the subwoofer shouldn't be in use for some time.

With the **AUTO ON / ON** switch (4) in position **AUTO ON**, the subwoofer starts automatically with the rest of your system and the **POWER LED**, on the front panel, glows green. After a period without input signal the amplifier automatically reverts to standby, **POWER LED** glows red.

Setting the **AUTO ON / ON** switch (4) to position **ON** will disable the automatic start/stop function, the amplifier is on as long as the **POWER** switch(2) is set to ON.

CAUTION!

If you hear distortion when you increase the volume this is normally a sign of overloading the subwoofer and you should immediately reduce the level. We recommend that you use the volume control with care.

Service

Should your DLS loudspeaker system require service, or if you have difficulty in achieving the fine performance of which your DLS loudspeaker system is capable, consult the DLS dealer from whom the system was purchased. Your dealer has the knowledge required to provide expert advice and assistance. In case the DLS dealer is unable to assist you, you are welcome to contact the DLS Technical Department.

Warranty

This DLS loudspeaker is warranted to the original purchaser, against factory defect in material or workmanship, for a period of one (1) year from the date of original purchase. This warranty is valid only in the country of purchase, to the original purchaser and is non-transferable. DLS loudspeakers are music listening devices and should be used for listening purposes only. They must not be connected to any other equipment than amplifiers within the specified power range. DLS cannot be held responsible for damage or injuries caused by improper use, or use in violation with the recommendations in this leaflet.

IMPORTANT!

Before connecting electricity to the power supply, it is important that the **POWER** switch (2) is **OFF** and check that the voltage selector switch (3) 115V - 230 V is set at correct voltage for your country. Connect the subwoofers input signals before you switch the **POWER** switch to **ON**.



Marking by the "CE" symbol indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community



This product must be returned to the separate collection system for electronic products. Do not dispose this product together with general household waste.

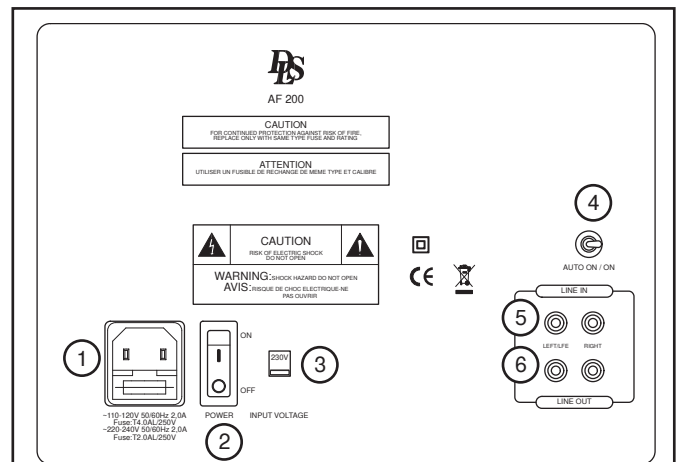


fig.1

Description of amplifier module AF-200

Fig. 1, Rear amplifier panel (above) ↑

LINE LEVEL INPUT (5)

RCA socket for line low level input

LINE LEVEL OUTPUT (6)

For connection to a second amplifier unit

AUTO ON / ON (4)

In **AUTO ON** the amplifier starts on signal, and shuts off when signal disappears on the input. In **ON**-position the amplifiers is always **ON**, never shuts off.

POWER (2)

Main power switch

POWER INPUT SOCKET (1)

Power input socket with fuse holder

VOLTAGE SELECTOR SWITCH (3)

To adjust amplifier for 115 or 230 V connection

Fig.2, Front panel behind the speaker grille.

POWER LED

Red for standby and green for subwoofer active

VOLUME

Control for adjusting subwoofer level to system

FREQUENCY

Control for adjusting the x-over frequency to the subwoofer.

PHASE

Control for phase shifting the subwoofer sound

BASS EQ

Increases the bass sound in ON-position, +4 dB @40 Hz

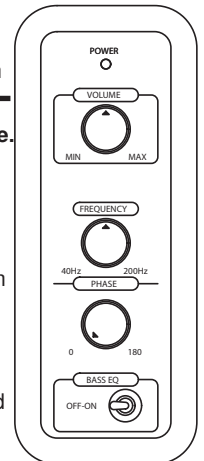


fig.2

Technical data for amplifier module AF-200

Used in Flatsub 8.2

Output power:	250 Watts class D
Woofer unit:	8" / 20 cm
Cross-over frequencys:	40-200 Hz
Sensitivity, line in:	200 mV / 12 kohm
Phase:	0° to 180° continuously
Frequency range:	25 - 200 Hz when mounted on wall or on the floor



IMPORTANT SAFETY INFORMATION!

1. The AC power cord must be connected to an AC outlet where it can be easily disconnected from the power source. A fixed installation of the power cord is not allowed.
2. The subwoofer must be connected to an AC outlet with protective ground.
3. Do not use this subwoofer in damp areas and protect it from water.
4. Do not place objects filled with water, such as vases, on the subwoofer.
5. Unplug the subwoofer during lightning storms or when unused for long periods of time.

Sound adjustment:

Volume control

This control is used to adjust the balance between subwoofer and front or satellite speakers. Once you have found a pleasant balance there should be little need for further adjustments. Trust your ears and your personal taste to find the correct setting.

Low-pass frequency control.

The active crossover network of the DLS Flatsub can be continuously adjusted from 40 to 200 Hz. This frequency is the split frequency between the subwoofer and the front or satellite speakers. A higher crossover frequency eases the load of the front speakers while a lower crossover improves the stereo image. As with the level control you need to try out what suits your equipment, room and ears the best.

Phase control.

This control changes the phase of the subwoofer sound continuously from 0 to 180°. Normal position is 0°, but for reasons of placement it could occur that subwoofer and front speakers are out of phase at the crossover frequency.

You recognize this as weak bass reproduction that just barely can be adjusted with the level control. Instead you adjust the phase. Turn the control slowly clockwise while playing music until you here the bass sound improve, your ears are the proper instrument to decide when the sound is correct.

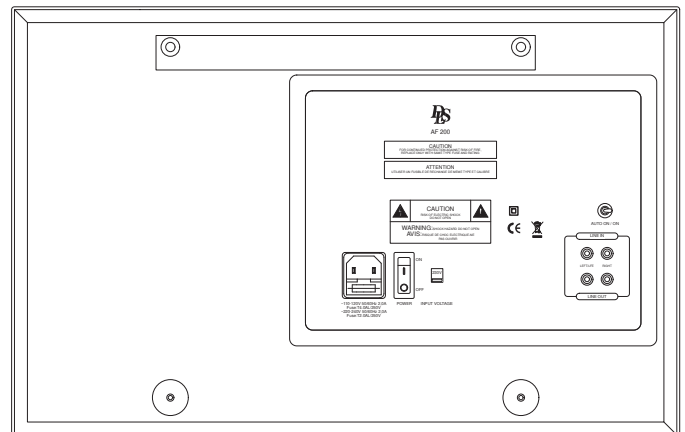
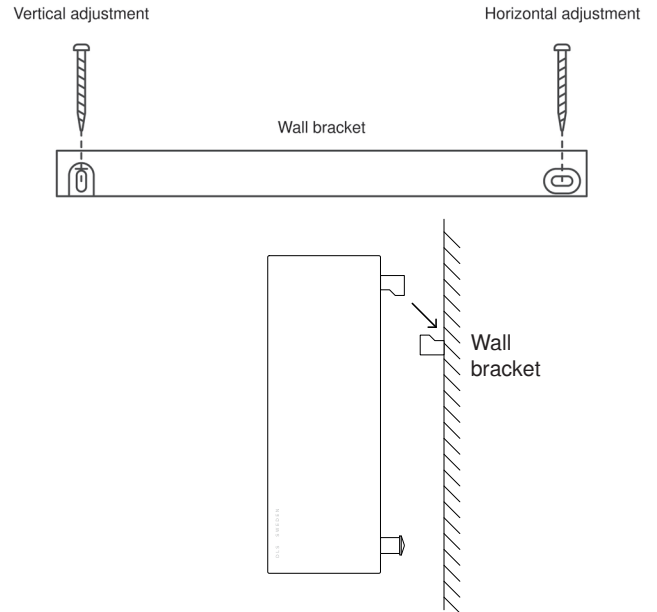
Bass EQ

This switch gives an increase of the bass sound with +4 dB @40 Hz. Choose the position that best matches your ears.

Placing in the room:

The Flatsub subwoofers are designed for hanging on a wall, down near the floor as in the photo, or any other position on the wall. A wall bracket is included with the speaker. The wall bracket is attached on the wall as in the drawing below.

Another way is to place it lying under a furniture, for example a sofa.



Connection alternatives:

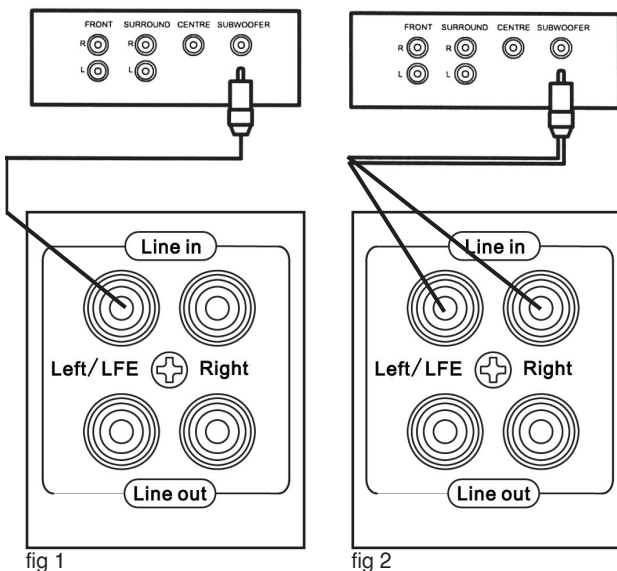
- SURROUND SYSTEM CONNECTIONS

Surround amplifiers provide a separate subwoofer line output, use a "Line Cable" from this output to **LINE IN** left (L), fig. 1. You can also use a "Split Cable" to connect the subwoofer line output to both **LINE IN**, left (L) and right (R), fig.2. The sensitivity then increases with 6 dB. This way to connect is to be preferred.

2-CHANNEL STEREO CONNECTIONS

-Line level input

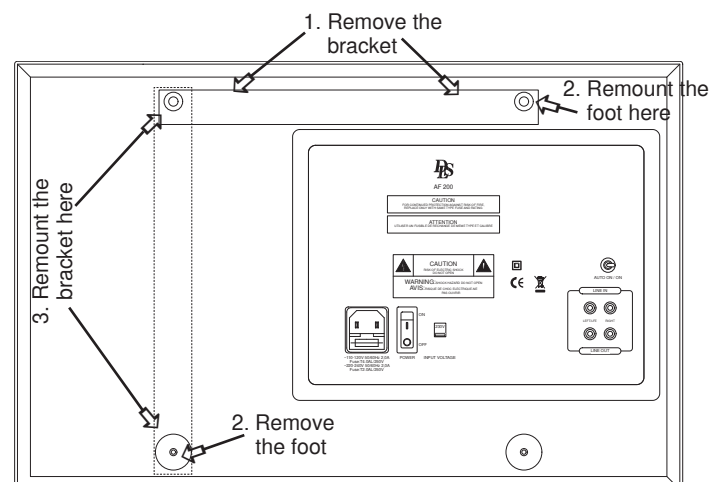
Should your amplifier have separate pre-amplifier outputs, you should connect those to **LINE LEVEL INPUT**, left (L) and right (R). Use a "Stereo Line Cable". Your front speakers remain connected to the loudspeaker outputs of the stereo amplifier.



Change of hanging direction:

The hanging direction of Flatsub wall can be changed by moving the wall bracket as described below.

1. Remove the bracket by removing it from the rear side using a T30 torx screw driver.
2. Remove the left removable foot and remount up to the right.
3. Remount the bracket in the other direction.



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