
essatto®

SE-A4

CAR amplifier

user manual

Technical specifications

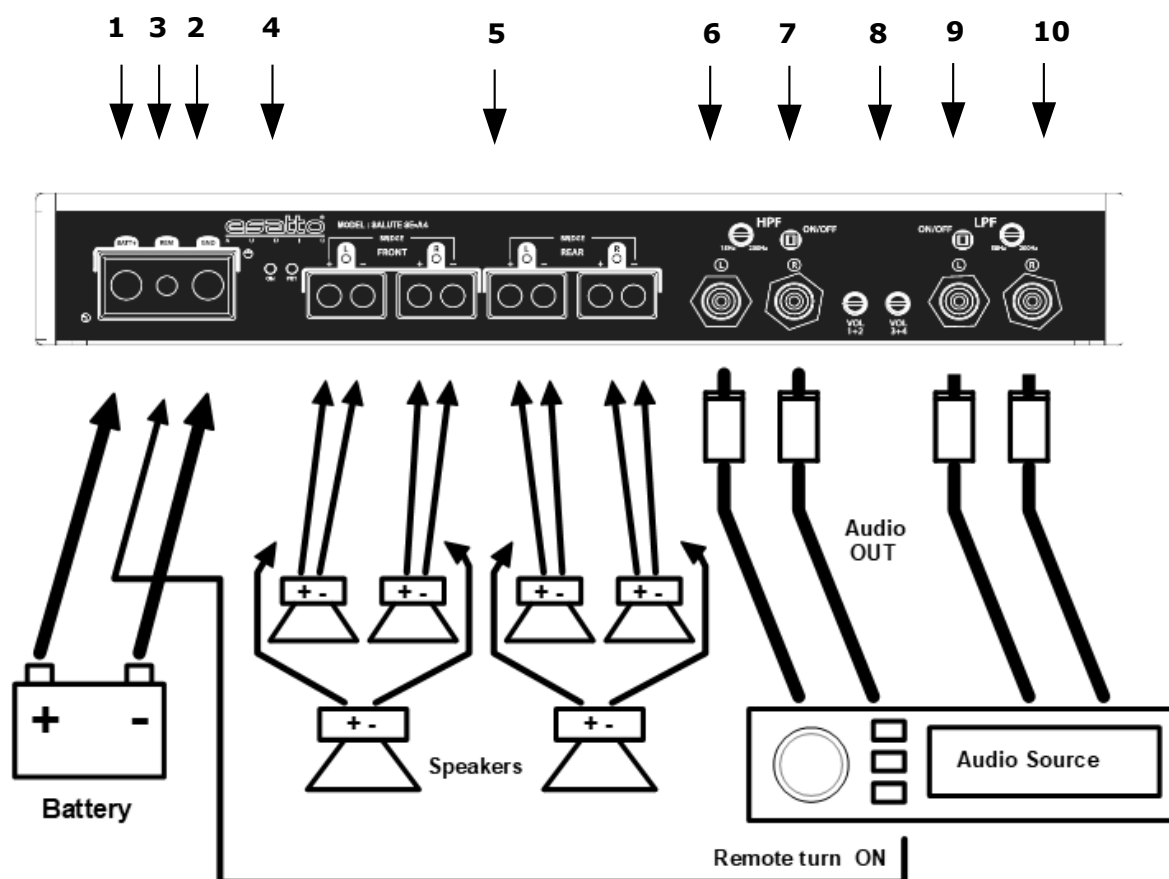
SE-A4 is a four channel classd AB car audio amplifier with built in crossover.

Power 4 ohm	More than 65 Wrms x 4
Power 2 ohm	More than 105 Wrms x 4
Power 4 Ohm mono	More than 200Wrms x 2
Internal fuse	30 A
Idle current	Up to 1,5 A
Efficiency	>55%
Min sensitivity	10V
Max sensitivity	500mV
Input impedance	>15 Kohm
Frequency resposne @ +/-3dB	<15Hz -- >65KHz
S/N ratio (A weighted)	>95dB
THD @ 1 KHz (@ 3/4 of power into 4ohm)	<0,05%
Amplification tipology	AB
Supply voltage	11-15Volt
Short-circuit/Overload protection	yes
Over temperature protection	85° (+/- 5%)
Dimensions	Long.=320mm Wide=160mm Height=55mm
Weight	2,720 Kg
Working temperature	0 - 50°
HI-pass filters	yes
LOW-pass filters	yes

N.B. Specifications may change without notice for design changes or aesthetic changes.

We congratulate you for choosing an ESATTO AUDIO product.
It is designed and built in ITALY.

Wiring the amplifier



1 – (BATT+) POSITIVE power terminal block, connect it to the chassis of the car or to the negative pole of battery (-).

2 – (GND) NEGATIVE power terminal block, connect it to the positive pole (+) of the battery after the main fuse.

3 – (REM) Connection for the "remote" command that turns on the amplifier.

4 – LED diagnostic panel:

On = Led blu indicates the power amplifier is ON.

Prt = Led red indicates that the amplifier is over heating or CC/DC protection.

CAUTION:

- Near the positive pole of the battery, within 20-30cm, it is necessary to interpose a fuse, maybe waterproof if the battery is housed in the engine compartment.
- The ground connection is normally done by connecting the amplifier's "GND" terminal to the car chassis, when you do this, make sure you find a safe and reliable grounding point, if necessary, remove impurities, paint residues etc. to ensure the better contact.

5 – Speaker connections, minum load is 2 Ohm in stereo mode and 4 Ohm in mono mode.

6 – Female RCA connection for audio input channel 1 & 2

8 – Potentiometer for set the sensivity channels 1 & 2 – 3 & 4

7 – Pushbutton to activate the **Hi-Pass** filter and potentiometer for set the frequency (CH 1 & 2)

9– Pushbutton to activate the **Low-Pass** filter and potentiometer for set the frequency (CH 3 & 4)

10 – Female RCA connection for audio input channel 3 & 4

Diagnostic

If the amplifier not work properly, please try to follow these points:

1 – There is no sound in output and the BLU led is ON

- Check the speakers connections.
- Check if the speaker are broke or if there is a short circuit in the output cable.
- Check the led “Prt”, if it is ON, the amplifier is over heating, wait till the amplifier cool down.
- Check the input voltage, it has be over 11V.

1 – There is no sound in output and the BLU led is OFF

- Check the power connections (+ & -).
- Check the fuse along the power cord and change is if is broke.
- If all the previous points are ok, try to check the internal fuse, for do this, please refer to the installer.

1 – The sound come and go

- Check the power connections (+ & -).
- Check the battery level, if it is under the normal voltage, this can be the cause of the problem.
- Check if the speakers impedance is not below the minimum permitted.

Installation notes

**Proper installation guarantees better performance,
follow these suggestions for installation.**

- Do use only shielded cables to connect the audio signal between the car radio and the amplifier, it is not necessary to use very expensive cables, but do NOT use very bad cables!
 - The use of good quality RCA connectors guarantees a good contact, lasting over time and reliable even after several operations of insertion.
 - Shielded cables must be kept at a minimum distance of 10cm c.a. from any generators of car noise, such as power units, pumps, cables, etc.
 - For power connections use only good cables, of suitable sections and protected in the engine compartment. The cables for car-audio applications are very flexible and therefore easy to install.
 - Carefully take care of the laying of the cables and operate in order to follow different routes to signal cables from power cables.
 - It is a good idea that the GND of the amplifiers is connected to the same point, together with the car radio's one. Example: if there are two amplifiers, find a good grounding point for the amplifiers themselves and bring the mass of the car radio to the same point using a cable (Ø3-5mm).
 - Fix the amplifier securely, to avoid its movement and then the cables jostling.
 - A well-designed and equipped system may involve the collection of various devices, if this happens, ensure adequate ventilation of the place where the amplifiers are installed, perhaps with the aid of an additional forced air flow by a fan inside the various compartments.

Security rules



This amplifier is designed to work only at 12V DC from the car battery, do not attempt to power it with AC or different voltages!

Install the device in a solid way that does not affect driver's guidance

Do not place the device in very hot places (such as the engine compartment).

Make sure that the installation location is not subjected to high humidity and / or splashes of water.

Perform solid and safe connections, using only cables of adequate section and type.

It is absolutely essential to install a fuse of adequate value near of the battery.

In the installation / uninstallation and maintenance operations it is absolutely necessary to remove the fuse located near the battery.

If the device is subjected to severe shocks that could visibly damage the chassis let it be viewed by the service center or by a professional installer.

Keep the device clean and do not obstruct normal chassis ventilation, do not use aggressive detergents for cleaning.

The maintenances allowed to the user are set sensitivity and filters.