

YOUR MUSIC. YOUR POWER.





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DEAR CUSTOMER,

CONGRATULATIONS ON ACQUIRING A PRODUCT WITH THE HIGHEST QUALITY AND TECHNOLOGY!

You have just purchased a **SounDigital** product of the highest technology and quality, so we thank you for your confidence.

SounDigital products are made with raw materials of the highest quality standards, and the most modern processes, equipment and technology are used in their production.

On this manual you will learn about the product, its features and characteristics, in order to obtain the best result and to be able to enjoy your music with **SounDigital** quality and power.

To better understand and take advantage of all the functions of the product and use it safely, read this manual carefully and if you have any questions, consult our support by email info@soundigitalusa.com.

PACKAGE CONTENTS

- 01 **3000.1 EVOX2** Amplifier
- 01 Installation quick guide with warranty card
- 01 Allen wrench 2.0mm
- 01 Allen wrench 2.5mm
- 01 Allen wrench 3.0mm
- 01 Promotional sticker

To prevent injuries to the user or damage to the amplifier, read all safety instructions written on this manual;

If you are insecure about the installation of this equipment, get in touch with our tech support or with a professional specialized in car audio installation;

Before proceeding with the installation of any electric equipment on your vehicle, unplug the negative (-) terminal of the battery to avoid fires, injuries or damages;

Use your sound system safely. The continuous exposure to sound pressures over 85dB may cause irreversible hearing damage;

This equipment is for use in automotive DC voltage batteries between 12.6 and 14.4 volts. Before installing the equipment, check voltage of the batteries;

Do not install the amplifier in places exposed to water, dirt or humidity;

Choose a ventilated place to install the amplifier and avoid blocking the side ventilation windows;

Mount the amplifier in a secure way. Avoid mounting it on metallic parts of the vehicle, because it may cause ground looping (noise);

Make sure that the location chosen for the amplifier installation does not effect the operation of the vehicle;

When passing cables through metallic walls, use rubber O-rings to avoid cable cutting and short-circuits;

Clean the amplifier periodically with brush or dry cloth to assure the thermal efficiency of the heatsink;

This product may reach temperatures over 60°C/140°F. Make sure it is cold before touching it;

Be careful when making holes in the vehicle. Make sure you are not making holes in the fuel tank, brake lines or electrical cables of the vehicle;

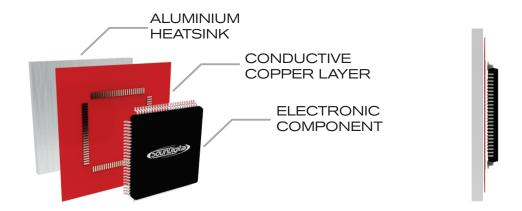
Make sure the cables are properly secured throughout the installation;

Wear gloves, safety glasses and and all necessary PPE during the installation of SounDigital amplifiers.



THIS "WARNING" SIGN ALERTS THE USER OF IMPORTANT INFO. NOT FOLLOWING THIS INSTRUCTIONS MAY CAUSE INJURIES TO THE USER OR DAMAGE TO THE EQUIPMENT.

DYNAMIC THERMAL MANAGEMENT - DTM®

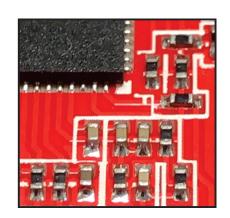


The **DTM*** is a dynamic thermal recovery system which always maintains a high efficiency of the amplifier by accelerating the thermal exchange of electronic components with the heatsink.

* Patent. Required*

ULTRA COMPACT PCB

An intelligent layout, with great use of the PCB area and the use of modern components with reduced structure guarantee **SounDigital** products a compact design, at the same time robust and with excellent thermal efficiency.



ROBUST CONSTRUCTION

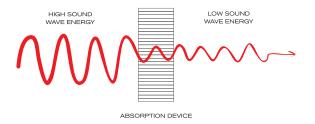
Thinking about the application of power sports, the product has an extremely robust assembly, both the fixing points and the layout of the PCB were designed to withstand high vibrations, bumps and impacts.

I-POWER SUPPLY

SounDigital amplifiers are known for their low consumption of battery, and this feature was improved on the **EVOX2 Line**. The new **I-POWER SUPPLY** is even more modern, which replaces the old toroidal transformers by a new generation of "E-E" core transformers delivers efficiency above 90%*, ensuring more hours of sound without battery recharge.

*Efficiency measured at power supply only



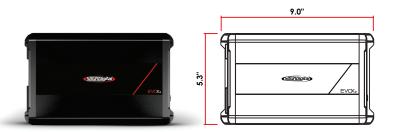


VIBRATION ABSORPTION DEVICE - VAD®

Our VAD® Technology reduces all impact caused by vibration on the electronic circuit board. This can include road vibration and even vibration caused by sound waves, increasing the reliability of our amplifiers.

REDUCED SIZE

The technology used in our amplifiers bring both high performance and power a compact chassis, providing flexible installation solutions for vehicles with limited space.



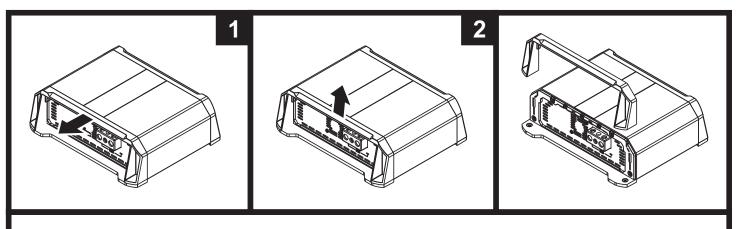


FULL RANGE

Versatile products that cover the entire audible frequency range, any type of loudspeaker or music program.

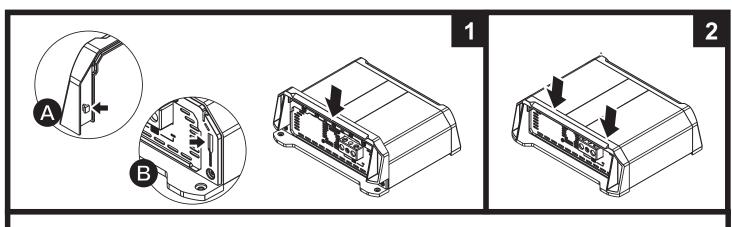
The plastic covers have the function of finishing and hiding the amplifier fixing screws. To disassembling and assembling them, follow the instructions below.

DISASSEMBLING OF THE PLASTIC COVER



- 1. Carefully pull out the top of plastic cover to release the upside latches, as shown in the picture 1.
 - 2. Slide up the plastic cover in a continuous movement to remove it.

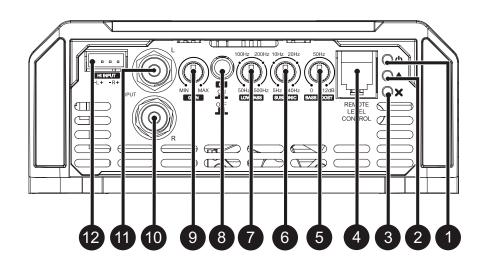
ASSEMBLING THE PLASTIC COVER



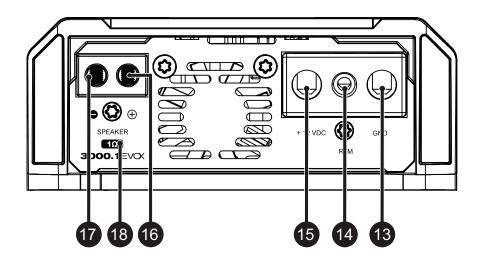
- 1. To fit the plastic cover back, carefully insert the point A of the plastic cover into point B of the amplifier, slowly sliding it down.
- 2. Gently press the sides of the top of the plastic cover towards the bottom of the amplifier until you hear a clicking noise.

^{*}Merely illustrative images.

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1	Blue	"Power ON" LED indicator
2	Yellow	"Clip" LED indicator
3	Red	"Protection" LED indicator
4	-	Remote level control connector
5	-	Variable Bass Boost control 50Hz (0dB ~ +12dB)
6	-	Variable Subsonic filter control (5Hz ~ 40Hz)
7	-	Variable Low Pass filter control (50Hz ~ 500Hz)
8	-	Low Pass filter on/off switch key
9	-	Variable Gain control
10	Right Channel	Audio input - RCA connectors
11	Left Channel	Addio input - NCA connectors
12	Right Channel Left Channel	Audio input - High Level (To connect to the speaker output of the head unit)



13	-	Negative power supply connector (GND)
14	-	Remote power supply connector (REM)
15	-	Positive power supply connector (+12VDC)
16	Speakers output	Positive speaker connector
17	connectors	Negative speaker connector
18	-	Minimum speaker load allowed (impedance)

INSTALLATION SEQUENCE



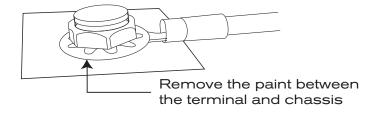
BEFORE PROCEEDING WITH THE INSTALLATION, UNPLUG THE NEGATIVE TERMINAL FROM ALL OF THE BATTERIES, TO AVOID FIRE, DAMAGE TO THE AMPLIFIER AND THE Warning! USER HIMSELF.

- Mount the amplifier in such a way you have access to the connectors;
- Install the power cables in the vehicle properly, starting from the battery to the fuse holder or circuit breaker, use the cable with the appropriate size. Make all connections, install fuse holders or circuit breakers, but without placing the fuses or with the circuit breakers in the "OFF" position;



THE MAXIMUM DISTANCE FOR THE INSTALLATION OF THE FUSE/CIRCUIT BREAKER IS 12 INCHES (30cm) AWAY FROM THE BATTERY.

- Connect the power cables in to the amplifier, observing the polarity. Connect all the positive cables from the fuse holder or circuit breaker to the positive conector of the amplifier and all the negative power cables from the batteries to the negative connector of the amplifier;
- The ground cable must be as short as possible and must be connected to the vehicle chassis and the battery negative;



- Install the signal input cables in a proper way, distant from the power cables;
- Connect the RCA or the high level signal input cables to the head unit and amplifiers;
- Install the audio output cables with the appropriate section, distant from the power and audio input cables;
- Connect the audio output cables to the amplifier and speakers respecting the positive (+) and negative (-) polarities;
- Install the remote cable with the power cables, using 1.5mm² (15 AWG) cable or thicker:
- Connect the remote power cable to the amplifier's "REM" terminal at the main unit's remote power output (when not using the high level signal inputs);
- Before powering the system, verify all the connections and make sure there are no mistakes or short-circuits on the power and ground cables;
- Reconnect the ground of the batteries;
- Check if the head unit is turned off and then place the fuses in the fuse holders or switch the circuit breakers on;
- Turn on the main unit and the amplifier will turn on the "ON" LED indicating that it is in operation.

ELECTRICAL DIMENSIONING

For proper operation of your SounDigital amplifier, you need the proper dimensioning of the electrical system and the cables used.

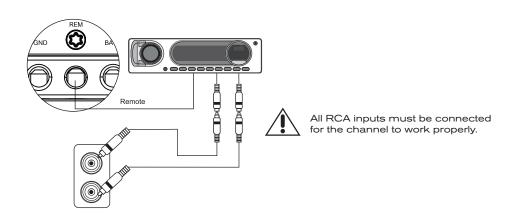
The table below shows the minimum section of GND cables, +12VDC cables and speaker output cables according to the power generated by the amplifier.

3000 CABO WRMS	CABO POSITIVO (+12VDC) CABO NEGATIVO (GND)		35mm² - 2 AWG
	CABO DE SAÍDA DE ÁUDIO	@ 1Ω	2 x 6.0mm² - 9 AWG
	CABO DE SAIDA DE AUDIO	@ 2Ω	2 x 4.0mm² - 11 AWG

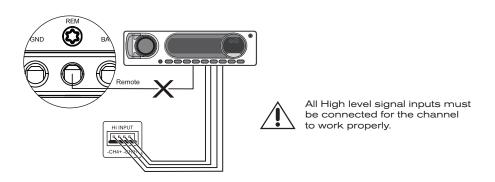
We recommend the use of ONLY OFC (Oxygen Free Copper) Cables on the installation of our products.

AUDIO INPUTS

RCA inputs



High level signal inputs



High level input must be used when the main unit does not have RCA outputs.

When High level inputs is used, no remote connection is required, the amplifier recognizes the audio signal and switches on.

If your source unit is not able to turn on the amplifier through the High level input, the remote input should be connected normally.

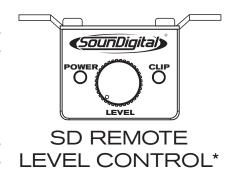


RCA AND HIGH LEVEL INPUTS SHOULD NOT BE USED SIMULTANEOUSLY OR YOU MAY DAMAGE THE AMPLIFIER.

EXTERNAL LEVEL CONTROL - SD RLC (NOT INCLUDED)

The SD RLC is an easy-to-install external level control accessory that allows you to tune the level of SOUNDIGITAL amplifiers that have remote level control.

In SD RLC, you can adjust the amplifier level without having to lean over and adjust the gain setting on the amplifier and can monitor the "CLIP" LED which is also available on the accessory.



GAIN SETTING

Necessary equipament:

- Digital AC voltmeter;
- Media with sine wave test tone 60Hz recorded at 0db;
- Screwdriver 1/8" (for gain set);

Set up procedure

- Turn the gain control all the way down;
- Disconnect the output cables from the amplifier outputs;
- Turn off all processing (bass, treble, loudness, EQ, etc.);
- Set the source unit volume to 3/4 of full volume;
- Set the source unit's fader control to center position;

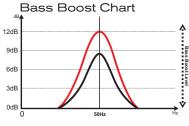
- Set the variable "LOW" crossover in 500Hz and the "SUBSONIC" in 5Hz;
- Use a 60 Hz sine wave;
- Increase the gain control until the "CLIP" LED starts blinking;
- Return the gain to the limit where the "CLIP" LED stops blinking and remains off;
- Once you have adjusted the amplifier to its correct voltage output, turn off the source unit and reconnect the speaker(s).

Download the tracks for set up in https://soundigitalusa.com/tracks-for-set-up/

Using Bass Boost

The Amplifier Bass Boost setting enables the user to boost the sound intensity at low frequencies of the sound system, where boost intensity can be adjusted.

This is a semi-parametric equalizer type circuit with "Q" value for the fixed filter, with an intensity boost adjustment from 0 to +12dB (16 times), and a central frequency adjustment of the filter in 50Hz, making it versatile for several types of sound systems.

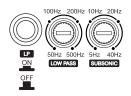


How to Adjust Bass Boost



Reproduce your favorite song and set the boost intensity between 0dB and +12dB at the variable control level according your preference.

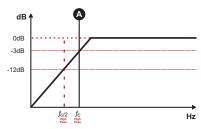
How to Adjust the Crossovers



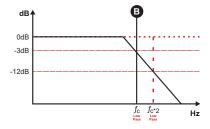
For full range application, select the LP key in the "OFF" position and the "SUBSONIC" variable control at 5Hz. All frequencies will be reproduced according to figure bellow;

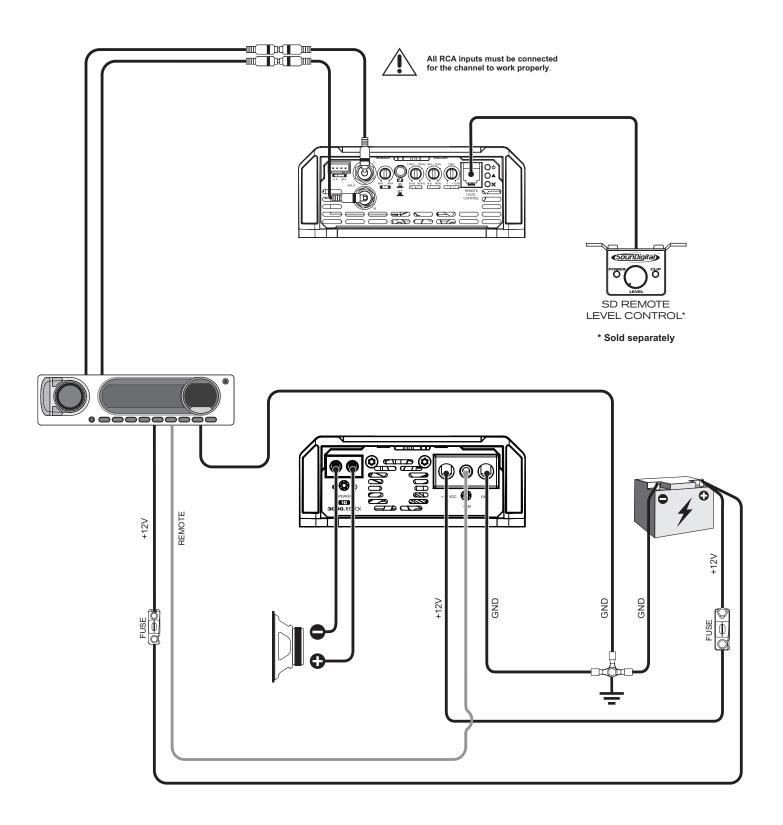


To set the "SUBSONIC" variable control between 5Hz and 40Hz ("A") where you want to perform the subsonic cut filter;



Set in the "LOW" variable control between 50Hz and 500Hz ("B") where you want to perform the low pass cut filter and select the "LP" key in position "ON";





Model	Minimum impedance
3000.1 EVOX2 1Ω	1Ω
3000.1 EVOX2 2Ω	2Ω

307W 980W	3000.1EVOX2 2Ω 1980W 3000W
980W	
	3000W
2000/4/	
500000	N/A
5Hz ~ 25kHz	5Hz ~ 25kHz
5Hz ~ 40Hz	5Hz ~ 40Hz
50Hz ~ 500Hz	50Hz ~ 500Hz
3V ~ 16V	8V ~ 16V
90dB	90dB
).2V ~ 2V	0.2V ~ 2V
21A	121A
242A	242A
36%	86%
2000	>2000
35mm² (2AWG)	35mm² (2AWG)
- /	2 x 4 mm² 11AWG
50A	150A
3 \ 2 \ 2 \ 3 \ 5 \ 2 \ 3 \ 5 \ 2 \ 3 \ 5 \ 2 \ 3 \ 5 \ 2 \ 3 \ 5 \ 2 \ 3 \ 5 \ 2 \ 3 \ 5 \ 2 \ 3 \ 5 \ 2 \ 3 \ 5 \ 3 \ 5 \ 2 \ 3 \ 5 \ 3 \ 5 \ 2 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 3 \ 5 \ 5	0Hz ~ 500Hz / ~ 16V 0dB 2V ~ 2V 21A 42A 6% 2000 5mm² (2AWG) x 6 mm² AWG

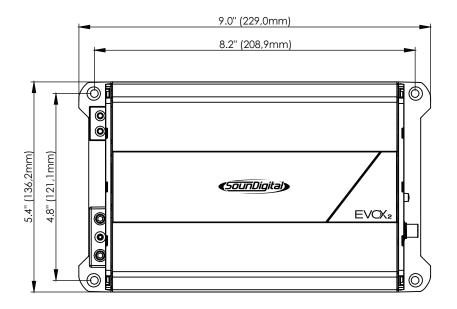
^{*}It is mandatory to install the fuse at a maximum distance of 12 inches from the battery.

^{**}Power at 14.4V @ 60Hz with a maximum THD of 1%.

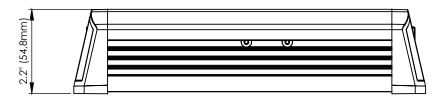


**REAL POWER NUMBERS CTA-2006 INDUSTRY STANDARDS

DIMENSIONAL DATA



Net Weight	3.5lb (1.6kg)
Gross Weight	4.1lb (1.9kg)





YOUR MUSIC. YOUR POWER.



Consumer Technology Association









