



OWNER'S MANUAL
3000.1 EVO6

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Dear Consumer,

Congratulations, you have just acquired a SoundDigital product of the highest technology and quality, so we thank you for your trust.

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

IMPORTANT INFORMATION

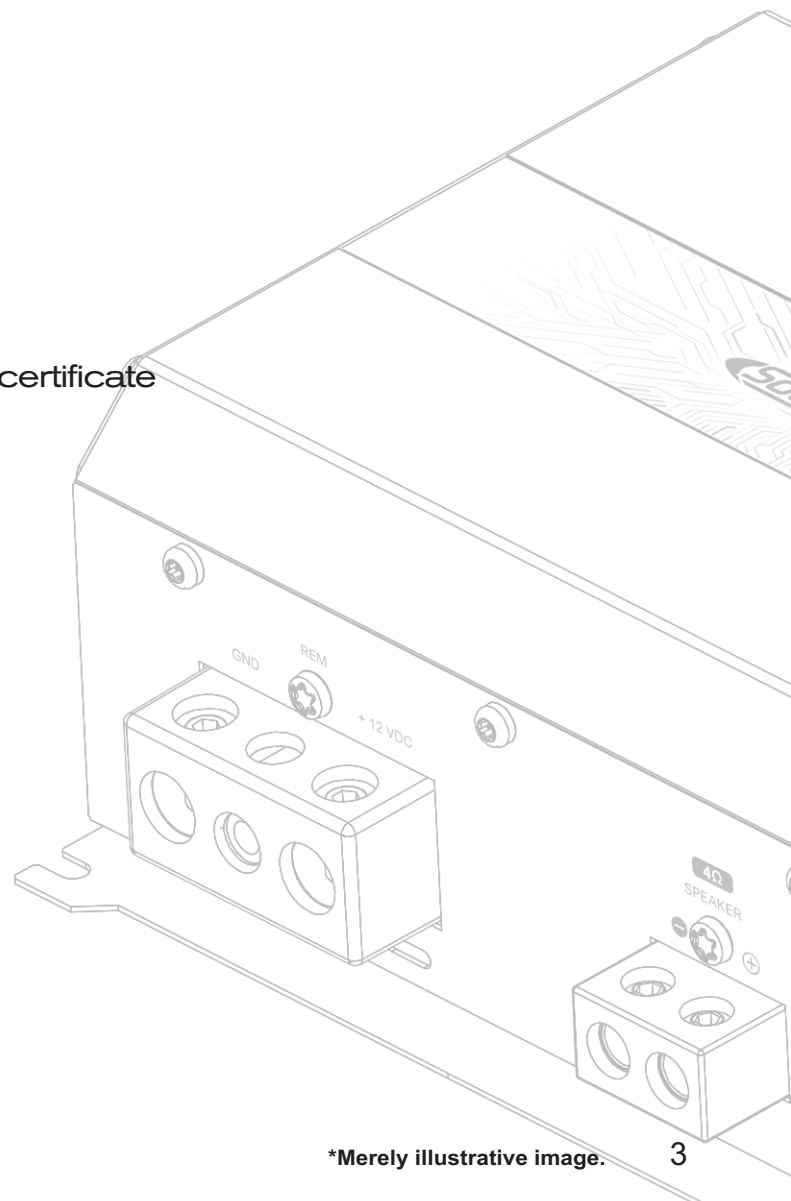
On this manual you will learn about the product, its features and characteristics, in order to obtain the best result and to be able to enjoy your music with SoundDigital quality and power.

Read this manual carefully and follow precisely all the information contained therein, these are very important and allow your amplifier to work optimally. If you think it is necessary, please do not hesitate to contact our technical support at the following contact:


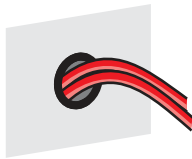
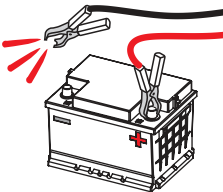
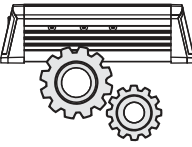


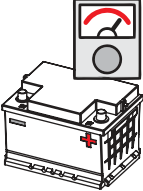
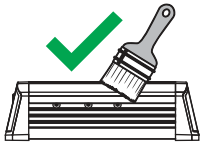


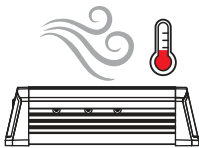
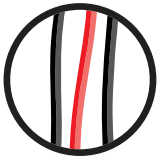
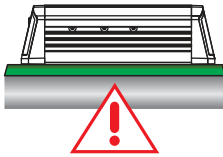

✉ info@sounddigitalusa.com

PACKAGE CONTENTS

- 01 **3000.1 EVO6** amplifier
- 01 Quick installation guide with warranty certificate



To avoid injury to the user or damage to the amplifier, read all safety instructions written on this manual.

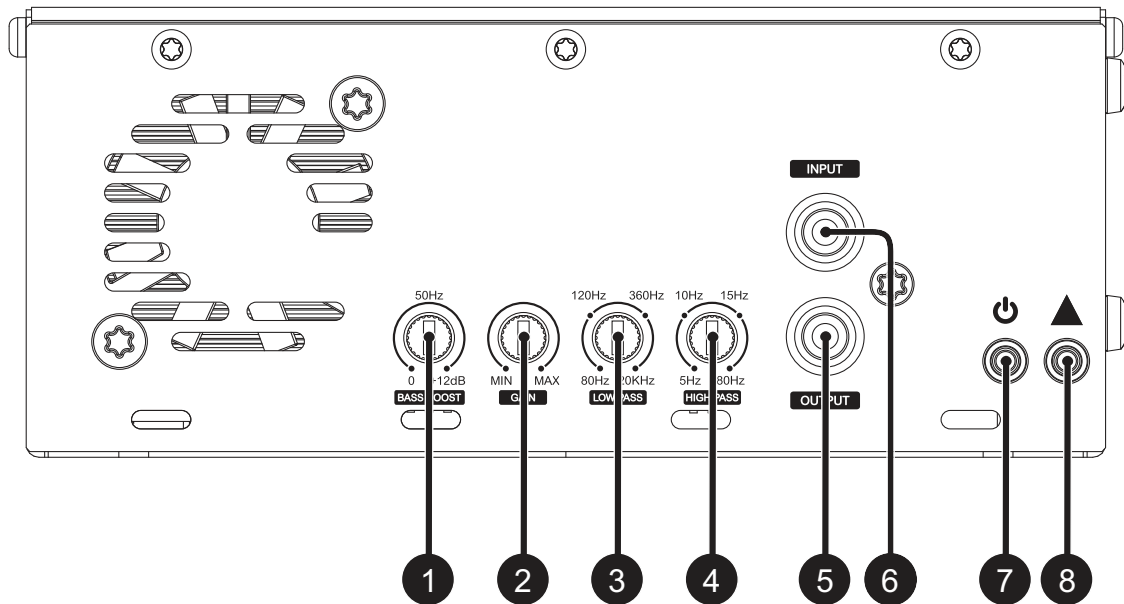
<p>The installation of this product must be done by a qualified professional. In case of any doubt, please contact our technical support;</p>		<p>When passing cables through metallic walls, use rubber O-rings to avoid cable cutting and short-circuits;</p>	
<p>Before proceeding with the installation of any electric equipment on your vehicle, unplug the negative (-) terminal of the battery to avoid fires, injuries or damages;</p>		<p>Make sure that the chosen location for the amplifier installation does not affect the operation of the vehicle;</p>	
<p>Use your sound system safely. The continuous exposure to sound pressures over 85dB may cause irreversible hearing damage;</p>		<p>This product may reach temperatures over 60°C (140°F). Make sure it is cold before touching it;</p>	
<p>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;</p>		<p>Clean the amplifier periodically with brush or dry cloth to assure the thermal efficiency of the heatsink;</p>	
<p>Do not install the amplifier in places exposed to water, dirt or humidity;</p>		<p>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;</p>	
<p>Choose a ventilated place to install the amplifier and avoid blocking the side ventilation windows;</p>		<p>Make sure the cables are properly secured throughout the installation;</p>	
<p>Fix the amplifier properly and firmly. Avoid fixing to metallic parts of the vehicle, as this procedure may cause ground looping (noise);</p>		<p>Wear gloves, safety glasses and all necessary PPE during the installation of Soundigital amplifiers.</p>	



Warning!

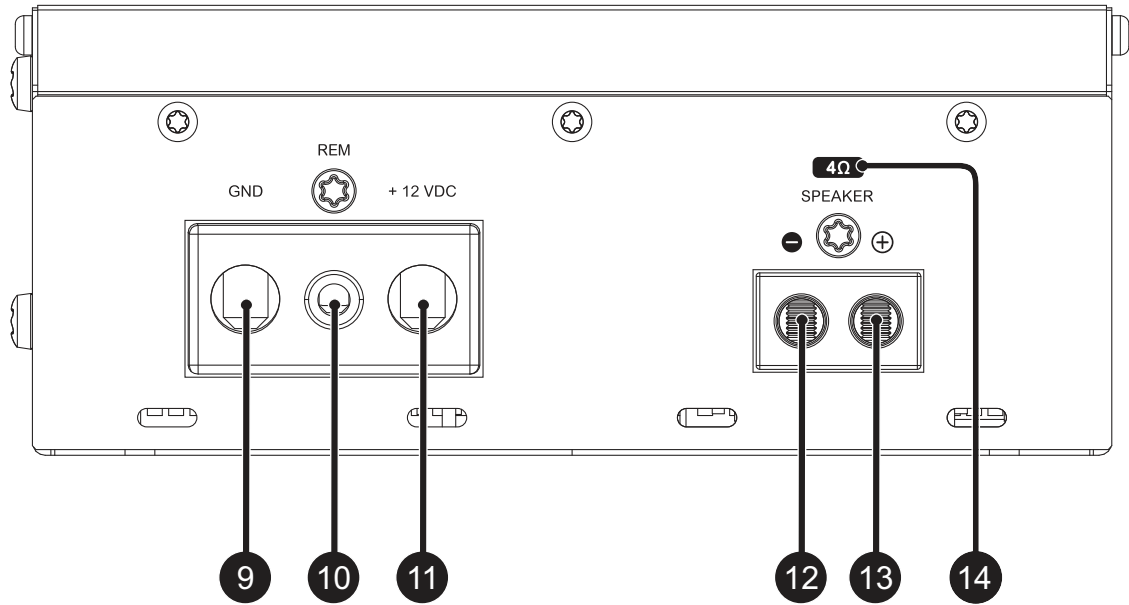
THIS "WARNING" SIGN ALERTS THE USER OF IMPORTANT INFO. NOT FOLLOWING THESE INSTRUCTIONS MAY CAUSE INJURIES TO THE USER OR DAMAGE TO THE EQUIPMENT.

Audio inputs and controls



1	-	Variable "BASS BOOST" control 50Hz (0dB ~ +12dB)
2	-	Variable Gain control
3	-	Variable "LOW PASS" filter control (80Hz ~ 20kHz)
4	-	Variable "HIGH PASS" filter control (5Hz ~ 80Hz)
5	OUTPUT	Audio RCA connectors
6	INPUT	
7	Blue	"POWER ON" LED indicator
8	Yellow	"CLIP" LED indicator

Power inputs and audio outputs



9	-	Negative power supply connector (GND)
10	-	Remote power supply connector (REM)
11	-	Positive power supply connector (+12VDC)
12	Speakers output connectors	Negative speaker connector (-)
13		Positive speaker connector (+)
14	-	Minimum speaker load allowed (impedance)



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

Warning!

- Fix the amplifier so that the connectors can be easily accessed;
- 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;

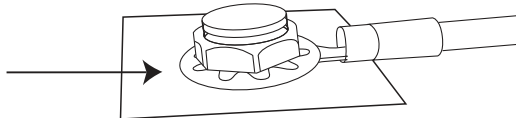


THE MAXIMUM DISTANCE FOR THE INSTALLATION OF THE FUSE/CIRCUIT BREAKER IS 12 INCHES (30cm) AWAY FROM THE BATTERY.

Warning!

- 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;

Remove the paint
between the terminal
and chassis

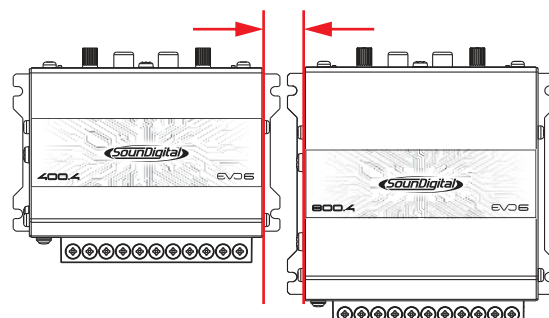


- Install the signal input cables in a proper way, distant from the power cables;
- Connect the RCA cables to the head unit and amplifiers;
- Install the audio output cables with the appropriate section, distant from the power and audio input cables;
- Connect the audio output cables to the amplifier 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;
- 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 "POWER ON" LED indicating that it is in operation.



Warning!

Minimum recommended
installation distance
between amplifiers*.
1.18in. (30mm)



*For installations with more than one amplifier, second unit not included. Merely illustrative images.

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 WRMS	POWER CABLE	35mm ² (2 AWG)	
	GROUND CABLE	35mm ² (2 AWG)	
	SPEAKER CABLE	@ 1Ω	6.0mm ² (9 AWG)
		@ 2Ω	4.0mm ² (11 AWG)
@ 4Ω		2.5mm ² (13 AWG)	
REMOTE CABLE	1.5mm ² (15 AWG)		

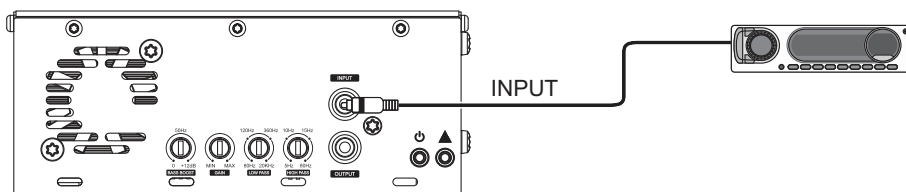
We recommend the use of only OFC (Oxygen Free Copper) cables on the installation of our products.

Copper-clad aluminum wire (CCAW) must not be used.

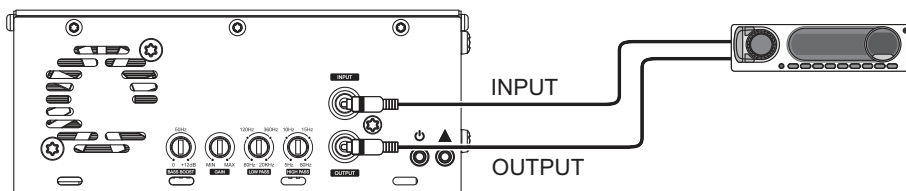
AUDIO CONNECTORS

RCA input and output

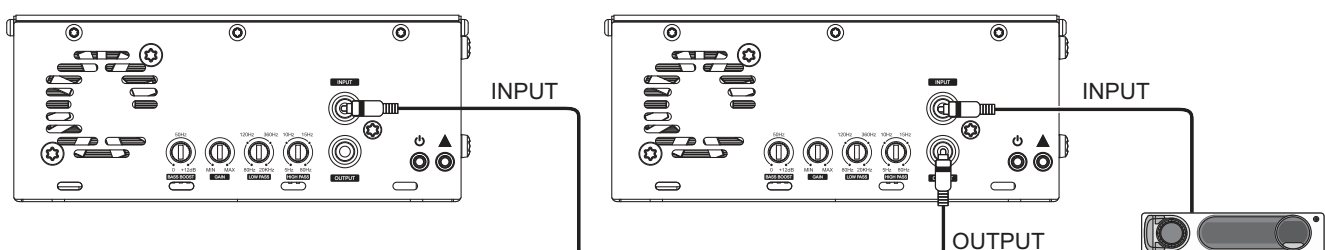
Example of one RCA cable connection only.

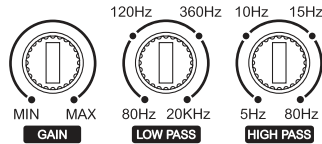


Example of two RCA cables connection (mono input).



Example of one RCA cable connection only and using the RCA output to connect another amplifier.





GAIN SETTING

Necessary equipment:

- Digital AC voltmeter;
- Media with sine wave test tone 60Hz recorded at 0db;
- 1/8" screwdriver (for gain adjustment).
- Set the variable "LOW" crossover in 20kHz;
- Set the variable "HIGH PASS" crossover in 5Hz;
- Set "BASS BOOST" to 0dB;

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 audio player fader control to center position (left and right fader controls);
- 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).

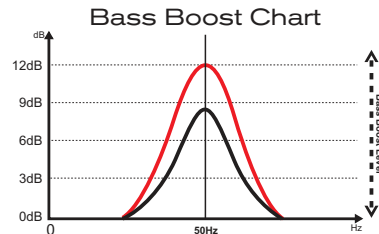
MODEL	IMPEDANCE / POWER	OUTPUT VOLTAGE
3000.1 EVO S 1Ω	1Ω / 3000W	54.7V
3000.1 EVO S 2Ω	2Ω / 3000W	77.4V
3000.1 EVO S 4Ω	4Ω / 3000W	109.5V

Download the tracks for set up in <https://sounddigitalusa.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.



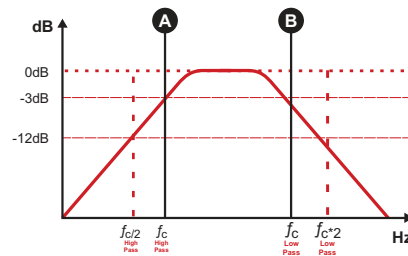
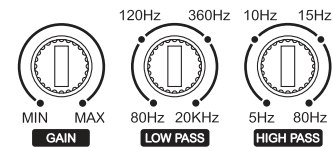
How to Adjust Bass Boost

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

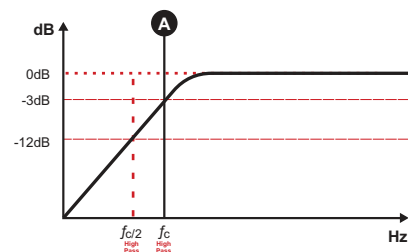


How to Adjust the Crossovers

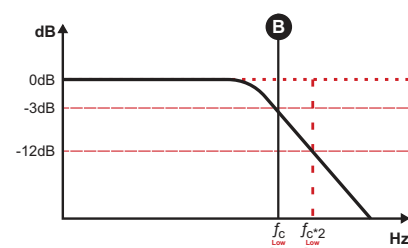
The use of the two associated filters can form a bandpass filter, as in the figure below, where the point "A" is defined in the "HIGH PASS" crossover and the point "B" is defined in the "LOW PASS" crossover.

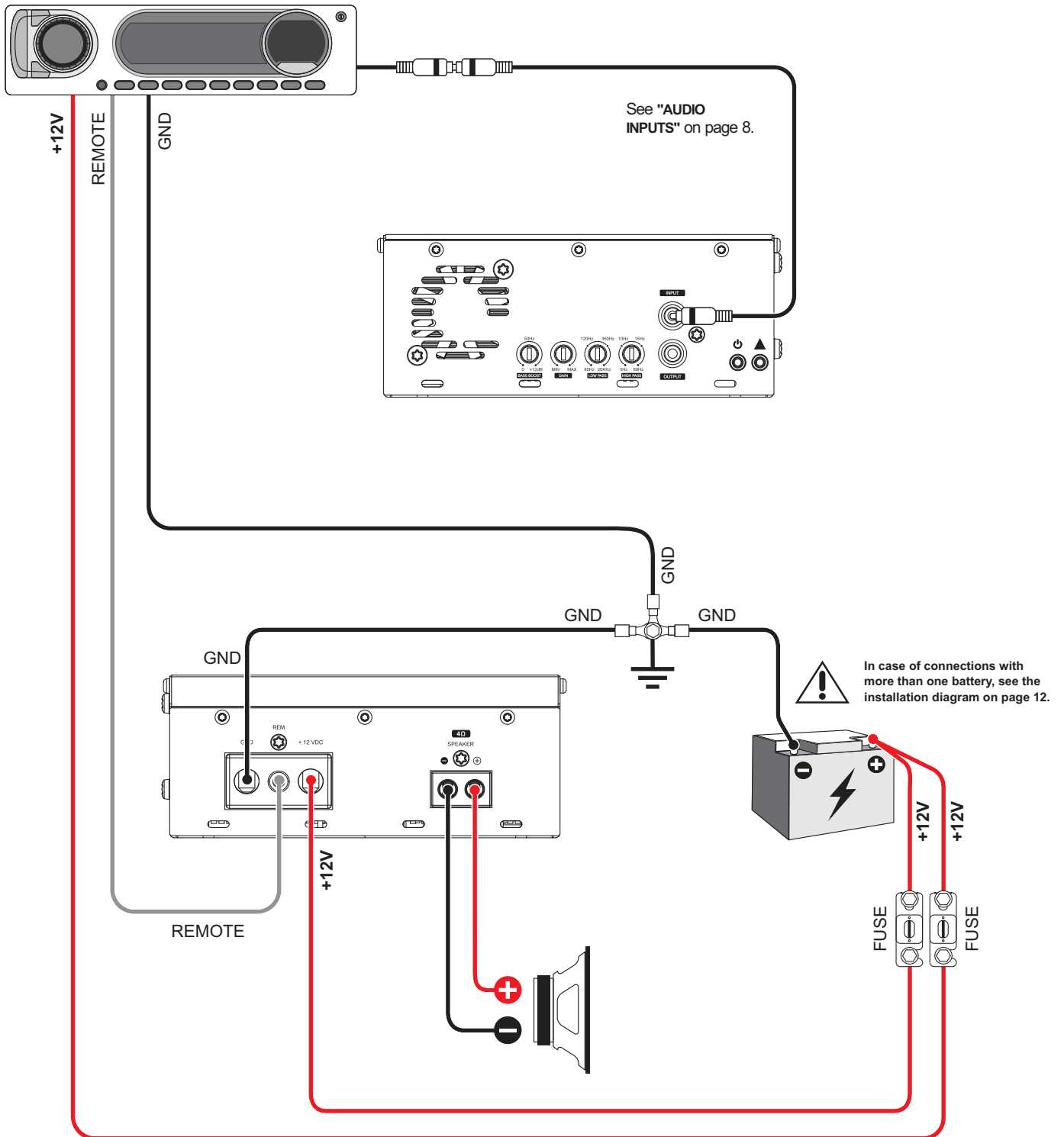


To set the "HIGH PASS" variable control between 5Hz and 80Hz ("A") where you want to perform the high pass cut filter;



Set in the "LOW PASS" variable control between 80Hz and 20kHz ("B") where you want to perform the low pass cut filter;

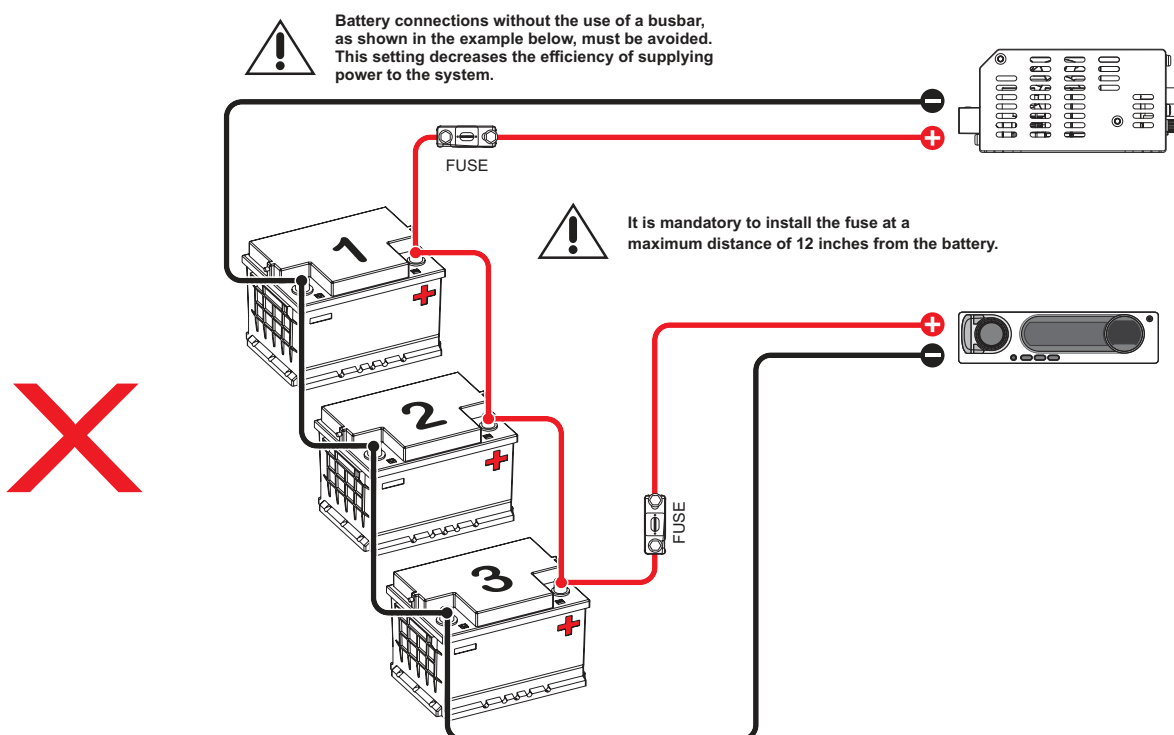
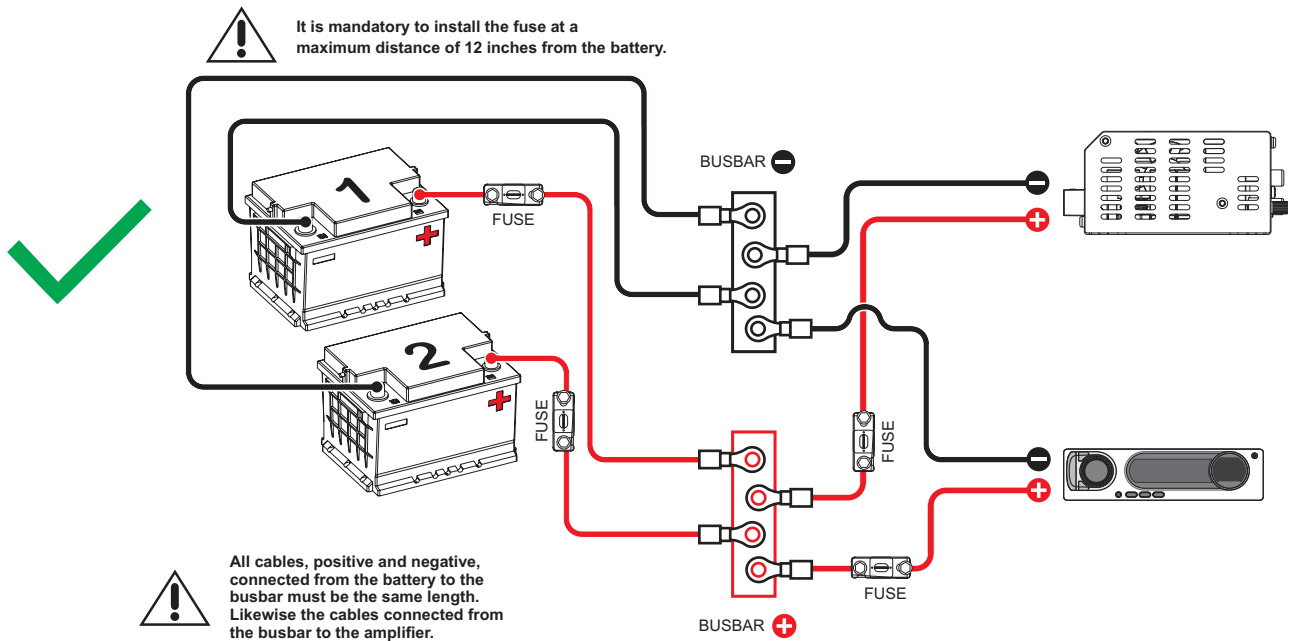





Model	Minimum impedance of use according to the model
3000.1 EV06 1Ω	1Ω
3000.1 EV06 2Ω	2Ω
3000.1 EV06 4Ω	4Ω

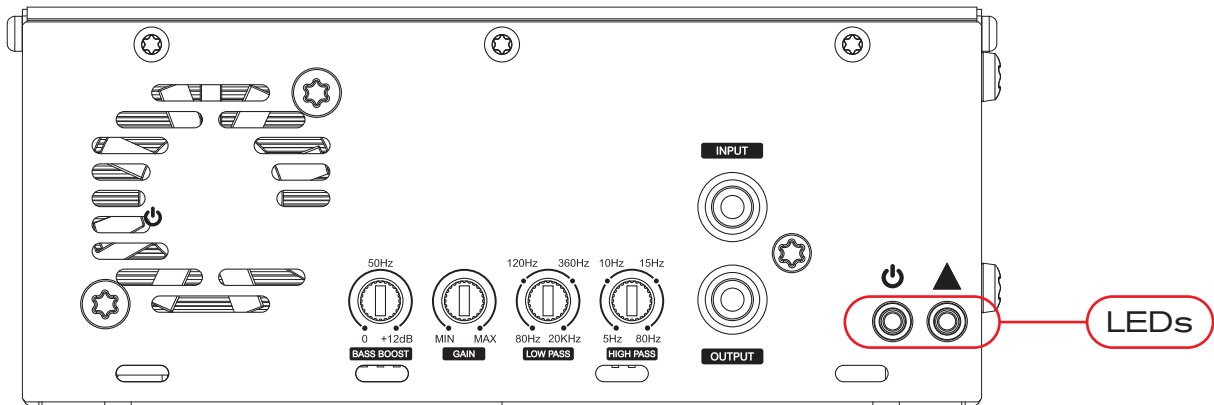
When necessary the association of one or more battery banks to supply the necessary current to the amplifier, it is recommended to use batteries of the same brand, model, and if possible the same manufacturing lot so that the system has the maximum performance.

For an ideal energy performance, we recommend that all batteries be connected to positive and negative busbars and the busbars connected to the amplifier, as shown in the diagram below:



 **"POWER" LED indicator (blue)**
LED "POWER" Off..... Product off.

 **"CLIP" LED indicator (yellow)**
LED "CLIP" Off Product operating normally.
LED "CLIP" Flashing..... Audio distortion indication.



In the vast majority of cases, situations that at first glance appear to be a defect can be adjusted and resolved by yourself without the need to seek Authorized SoundDigital Technical Assistance. If the problem persists after carrying out the corrective actions below, contact our nearest technical team.

APPARENT DEFECT	PROBABLE CAUSE	SOLUTION
Amplifier does not turn on.	Lack of power supply.	<ul style="list-style-type: none"> •Check if the power and remote signal cables are connected correctly.
When audio is cut off, the blue LED flashes.	Low or very high supply voltage.	<ul style="list-style-type: none"> •Check the battery, cables and fuse holder of the installation. •Check that the battery and cables are sized as specified in the parameter table in this manual.
When audio is cut off and the yellow LED remains flashing.	Low impedance at the amplifier output terminals.	<ul style="list-style-type: none"> •Check if there is a short circuit in the output wiring or if there is a short circuit in any speaker. •Check the minimum recommended impedance for the equipment.
Abnormal noise from the speakers.	Ground fault.	<ul style="list-style-type: none"> •Check if there is a defective RCA cable, if the radio's RCA ground is open or if there is an external power source connected (source or charger). •Make sure the RCA cables are close to the vehicle's power cables or wiring harnesses. •Check that the vehicle's spark plug wires are suppressive. In many cases it is necessary to use capacitors in the alternator, horn and ignition. •Check the quality of the grounding and that there is no paint at the fixing point, if necessary, scrape it off. For fixing, use an eye terminal correctly sized for the cable. When using other amplifiers, ground each piece of equipment at the same point.
Popping noise in speakers when amplifier is turned on or off.	RCA ground fault.	<ul style="list-style-type: none"> •Check whether the car radio's RCA grounding or the RCA cable's grounding mesh are broken.
Weak bass.	Phase cancellation between speakers.	<ul style="list-style-type: none"> •Check if there is a reversal in the polarity of the connection between the speakers.
Amplifier turns on but there is no audio.	Input or output connection failed or no signal.	<ul style="list-style-type: none"> •Check the connection of the RCA cables and output cables. •Check the car radio volume, balance or fader settings and audio processor levels.

PARAMETERS	3000.1 EVDS 1Ω	3000.1 EVDS 2Ω	3000.1 EVDS 4Ω
Power RMS @ 4Ω**	1300W	1980W	3000W
Power RMS @ 2Ω**	1900W	3000W	N/A
Power RMS @ 1Ω**	3000W	N/A	N/A
Frequency Response (-3dB)	5Hz ~ 20kHz	5Hz ~ 20kHz	5Hz ~ 20kHz
High Pass Filter (12dB/octave)	5Hz ~ 80Hz	5Hz ~ 80Hz	5Hz ~ 80Hz
Low Pass Filter (12dB/octave)	80Hz ~ 20kHz	80Hz ~ 20kHz	80Hz ~ 20kHz
Bass Boost	0dB ~ 12dB @ 50Hz	0dB ~ 12dB @ 50Hz	0dB ~ 12dB @ 50Hz
Operating Voltage	10V ~ 16V	10V ~ 16V	10V ~ 16V
SNR	92dB	92dB	92dB
Input Sensitivity (RCA)	200mV	200mV	200mV
Input Sensitivity (High Level input)	N/A	N/A	N/A
Current Draw (music)	140A	140A	140A
Current Draw (max.)	280A	280A	280A
Total Efficiency	88.1%	88.4%	88.3%
Damping Factor (@100Hz nominal impedance)	>2000	>2000	>2000
Power Cable	35mm ² (2 AWG)	35mm ² (2 AWG)	35mm ² (2 AWG)
Speaker Cable	6mm ² (9 AWG)	4mm ² (11 AWG)	2.5mm ² (13 AWG)
Remote Cable	1.5mm ² (15 AWG)	1.5mm ² (15 AWG)	1.5mm ² (15 AWG)
Recommended Fuse* (music)	150A	150A	150A
Recommended Battery (minimum)	150Ah	150Ah	150Ah

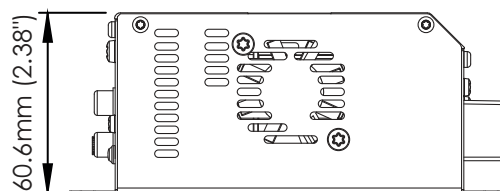
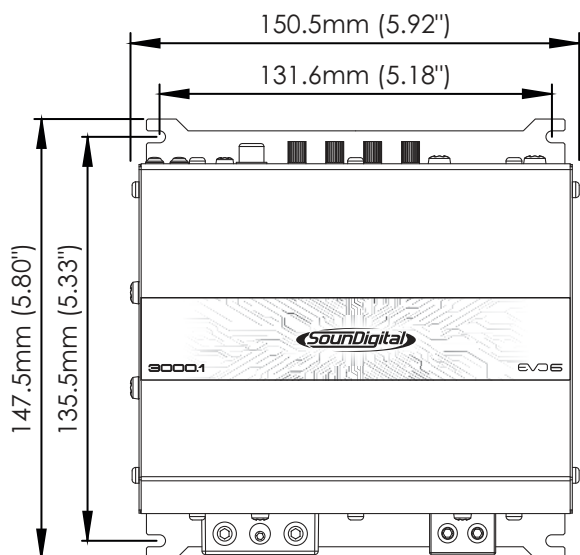
*It is mandatory to install the fuse at a maximum distance of 12 inches from the battery.

**Power at 12.6V @ 60Hz with a maximum THD of 1%.



**POWER RATING ACCORDING TO CTA-2006 INDUSTRY STANDARDS.

DIMENSIONAL DATA



Net Weight* 1.35 kg (2.97 lb)

Gross Weight* 1.47 kg (3.24 lb)

*Weights may vary slightly depending on the manufacturer.

ADDITIONAL INFORMATION

The values presented are based on measurements performed in SoundDigital's laboratories. All the equipment used in the assays, tests, measurements and gauging of the technical parameters of SoundDigital products were calibrated in certified laboratories, thus ensuring the performance and standard of excellence of the developed products.

The Manufacturing Process may present variations, and the electronic components may also present changes in values in relation to their nominal parameters. Thus, causing small differences between measurements taken. Small variations in the values presented and divulged by SoundDigital are recognized.



Updates of information made in this document will always be published and made available for consumer consultation, free of charge, on the brand's websites. The user is advised to search for the manual in its latest version when necessary.

The images presented in this document are representative and merely illustrative; therefore, they do not necessarily correspond to the actual product/model.



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