



BASS TRONIK

OWNER'S MANUAL

8000.1

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Dear Consumer,

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

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.

IMPORTANT INFORMATION

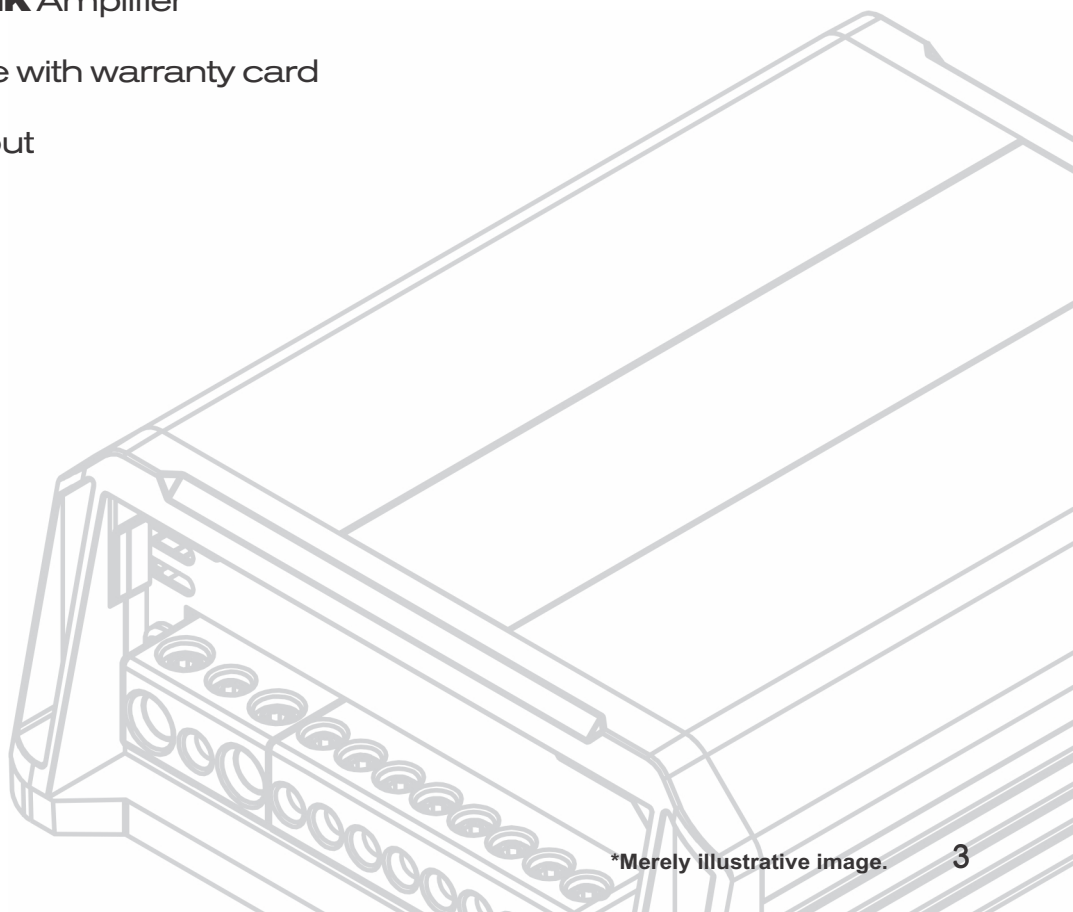
On this manual you will learn about the product, its features and characteristics, in order to obtain the best result and to be able to enjoy your music with SounDigital quality and power.

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:


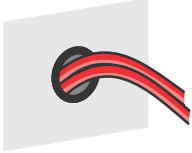
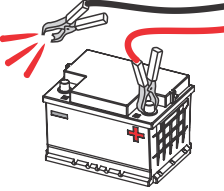
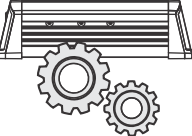


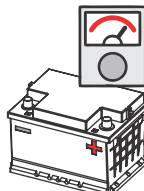
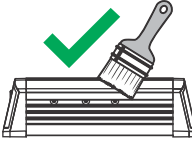


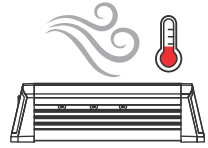
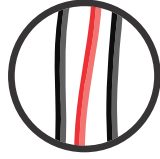
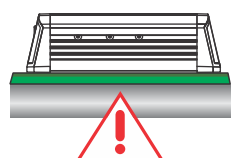

✉ info@soundigitalusa.com

PACKAGE CONTENTS

- 01 **8000.1 BASSTRONIK** Amplifier
- 01 Installation quick guide with warranty card
- 01 Cable for high level input
- 01 Promotional sticker



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 SoundDigital amplifiers.</p>

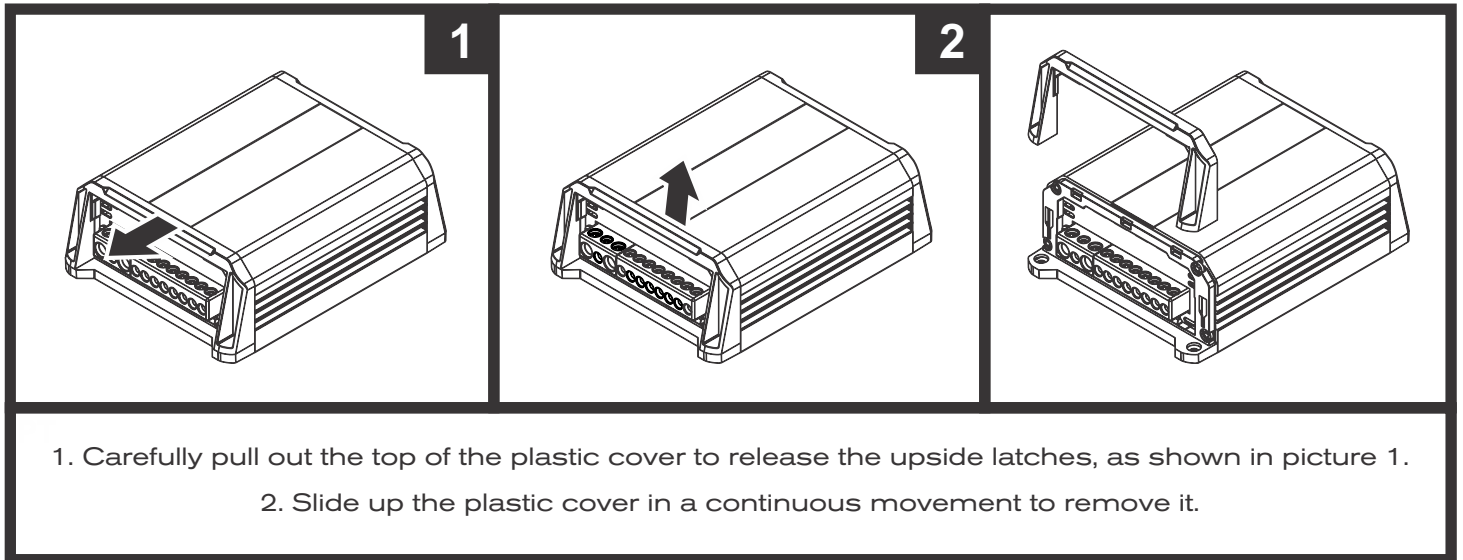


Warning!

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

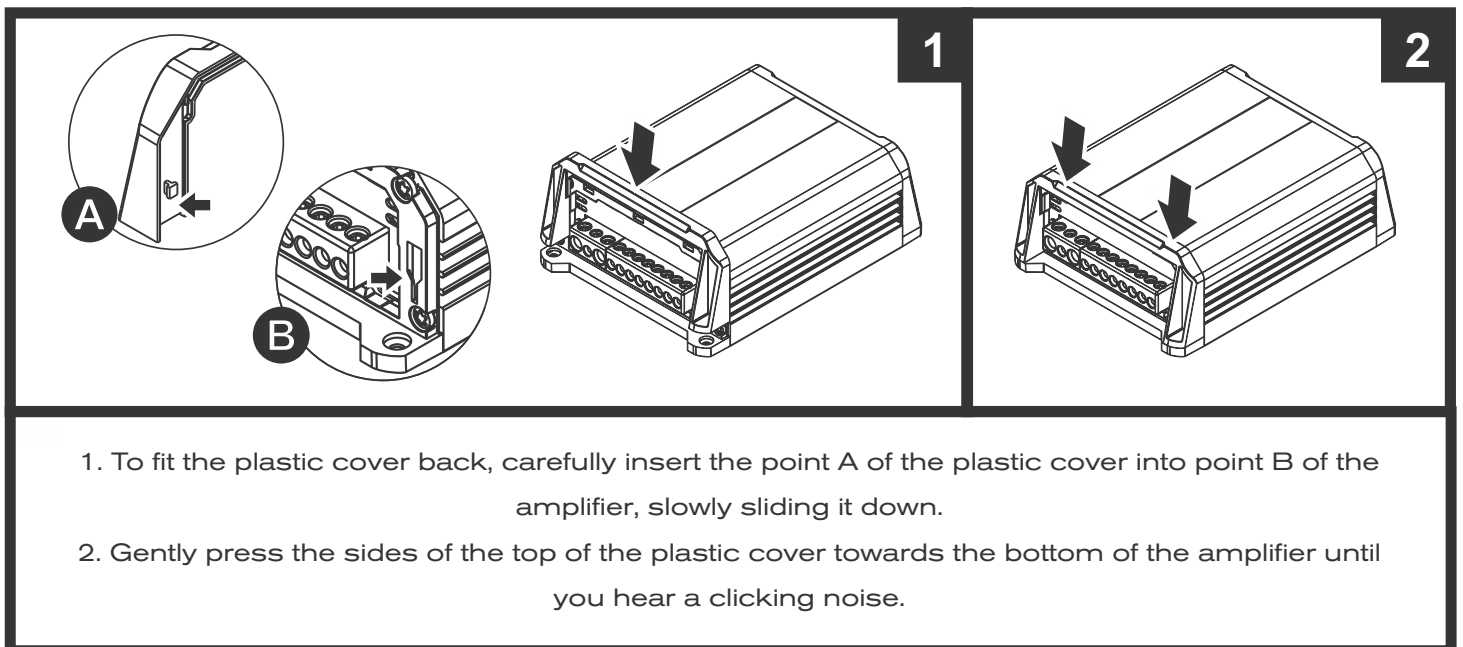
The plastic covers are used to finish off and hide the amplifier's fixing screws. To disassemble and assemble them, follow the instructions below.

DISASSEMBLING OF THE PLASTIC COVER



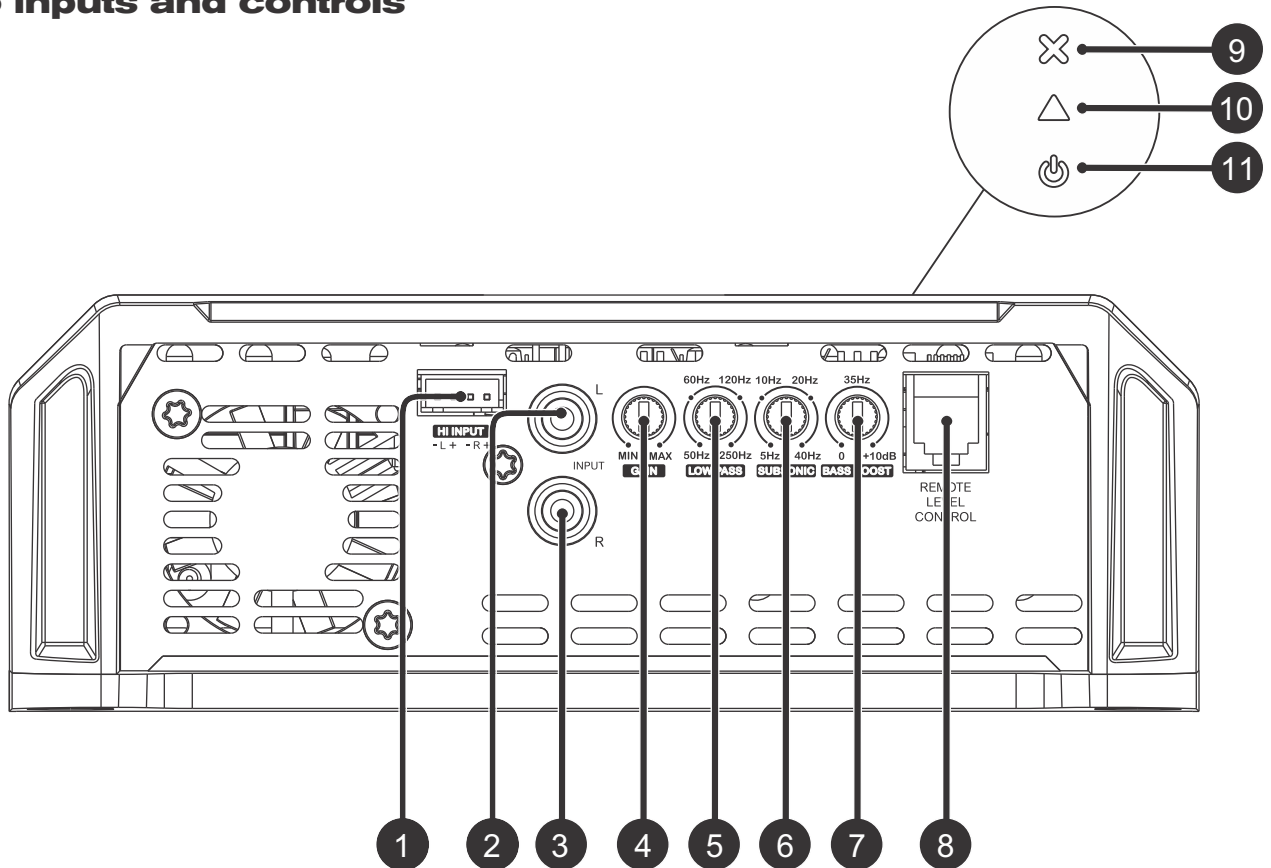
*Merely illustrative images.

ASSEMBLING THE PLASTIC COVER



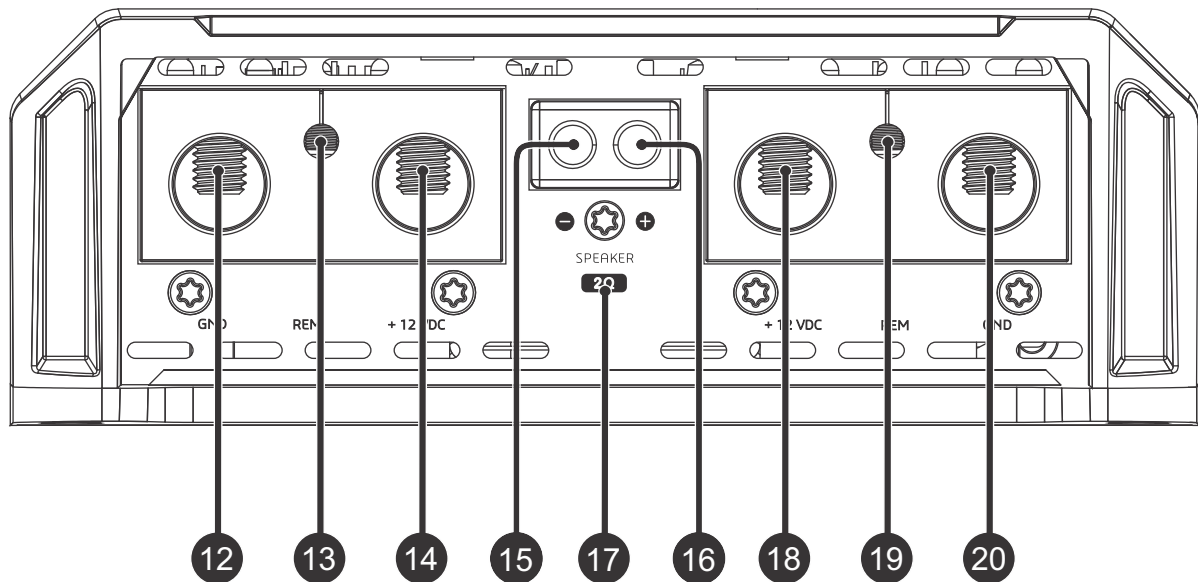
*Merely illustrative images.

Audio inputs and controls



1	Left Channel Right Channel	Audio input – High Level (To connect to the speaker output of the head unit)
2	Left Channel	Audio inputs – RCA connectors
3	Right Channel	
4	-	Variable Gain Control
5	-	Variable "LOW PASS" filter control (50Hz ~ 250Hz)
6	-	Variable "SUBSONIC" filter control (5Hz ~ 40Hz)
7	-	Variable "BASS BOOST" control 35Hz (0dB ~ +10dB)
8	-	Remote level control connector
9	Red	"PROTECTION" LED indicator
10	Yellow	"CLIP" LED indicator
11	Blue	"POWER ON" LED indicator

Power inputs and audio outputs



12	-	Negative power supply connector (GND)
13	-	Remote power supply connector (REM)
14	-	Positive power supply connector (+12VDC)
15	Speaker Output Connectors	Negative speaker connector (-)
16		Positive speaker connector (+)
17	-	Minimum speaker load allowed (impedance)
18	-	Positive power supply connector (+12VDC)
19	-	Remote power supply connector (REM)
20	-	Negative power supply connector (GND)

**Warning!**

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.

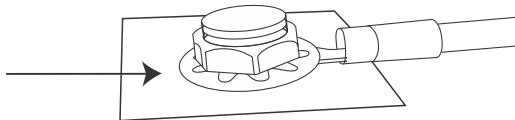
- Mount the amplifier in such a way you have access to the connectors;
- Install the power cables in the vehicle properly, starting from the battery to the fuse holder or circuit breaker, use the cable with the appropriate size. Make all connections, install fuse holders or circuit breakers, but without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

**Warning!**

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;

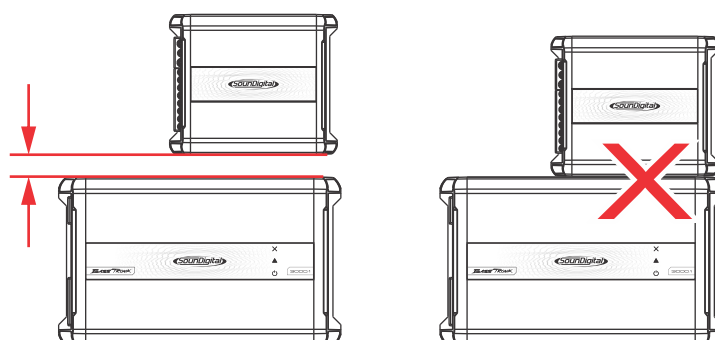
Remove the paint
between the terminal
and chassis



- Install the signal input cables in a proper way, distant from the power cables;
- Connect the RCA 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 "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 SoundDigital 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.

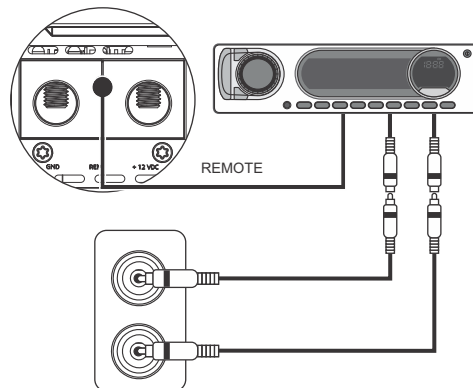
8000 WRMS	POWER CABLE (+12VDC)	70mm ² (00 AWG)
	GROUND CABLE (GND)	
	SPEAKER CABLE	10mm ² (7 AWG)
	REMOTE CABLE	1.5mm ² (15 AWG)

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.

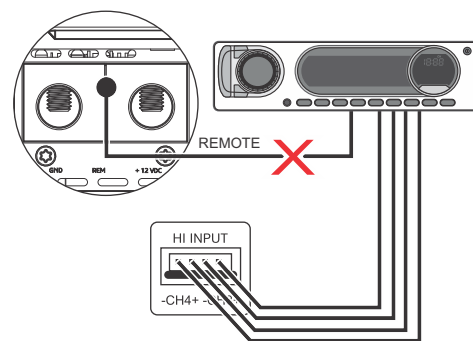
AUDIO INPUTS

RCA inputs



All RCA inputs must be connected for the channel to work properly.

High level signal inputs



All High level signal inputs must be connected for all the channels to work properly.

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

When High level input 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.

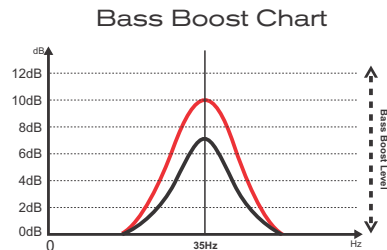


Warning!

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

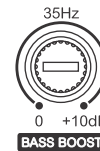
Using Bass Boost

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 +10dB (8 times), and a central frequency adjustment of the filter in 35Hz, making it versatile for several types of sound systems.



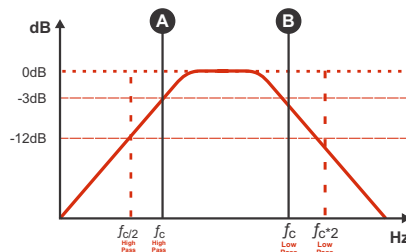
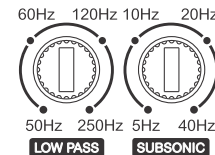
How to Adjust Bass Boost

Reproduce your favorite song and set the boost intensity between 0dB and +10dB at the variable control level according your preference.

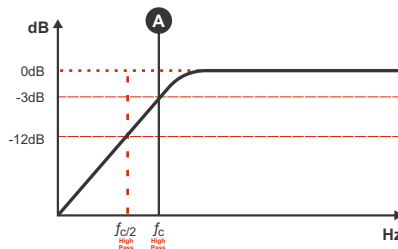


How to Adjust the Crossovers

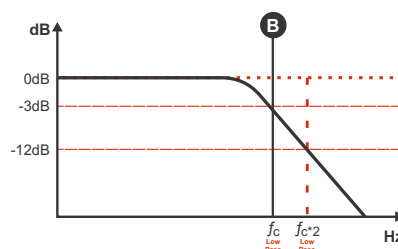
The use of the two associated filters can form a bandpass filter, as in the figure below, where the point "A" is defined in the "SUBSONIC" crossover and the point "B" is defined in the "LOW PASS" crossover.



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



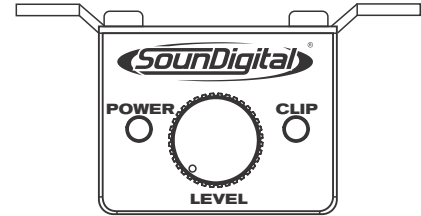
Set in the "LOW PASS" variable control between 50Hz and 250Hz ("B") where you want to perform the low pass cut filter;



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.



SD REMOTE
LEVEL CONTROL*

*Sold separately

GAIN SETTING

Necessary equipment:

- Digital AC voltmeter;
- Media with sine wave test tone 60Hz recorded at 0db;
- Screwdriver 1/8" (for gain set).
- Set the variable "LOW PASS" crossover in 250Hz;
- Set the variable "SUBSONIC" crossover in 5Hz;
- Set "BASS BOOST" to 0dB;
- 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 the correct voltage output, turn off the source unit and reconnect the speaker(s).

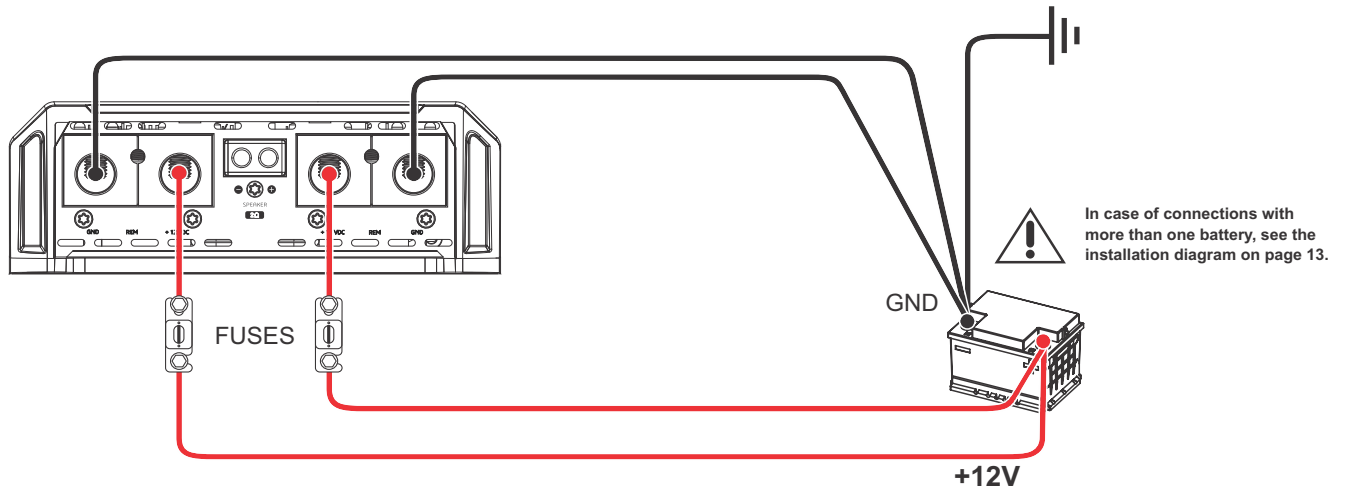
Set up procedure

- 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;

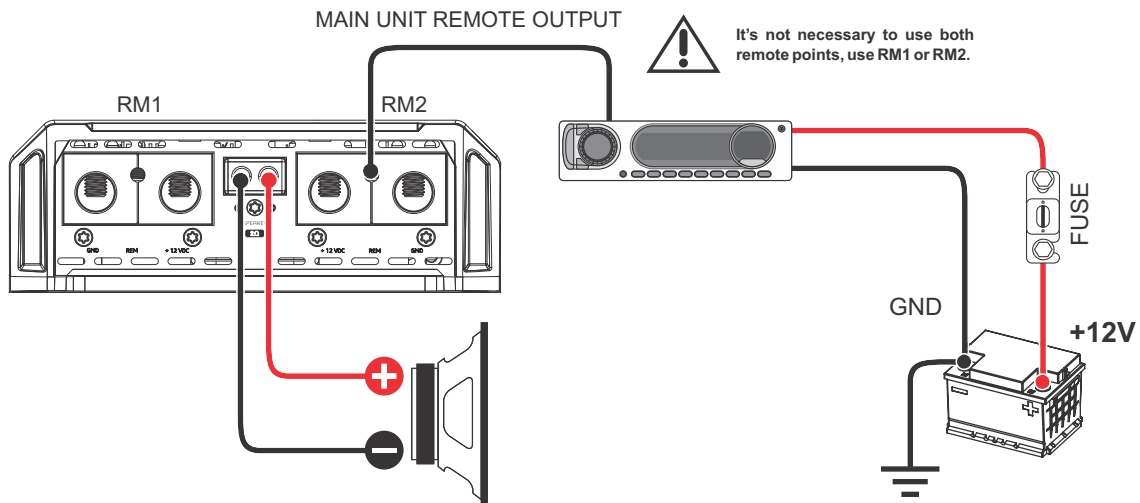
Download the tracks for set up in <https://sounddigitalusa.com/tracks-for-set-up/>

MODEL	IMPEDANCE / POWER	OUTPUT VOLTAGE
8000.1 BASSTRONIK 1Ω	1Ω / 1 × 8000W	89.44V
8000.1 BASSTRONIK 2Ω	2Ω / 1 × 8000W	126.49V

POWER CONNECTIONS



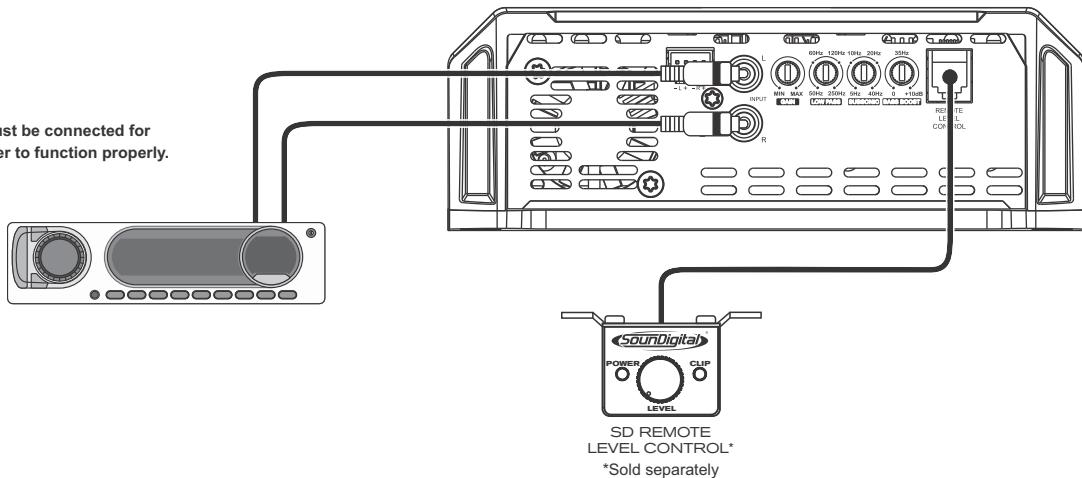
REMOTE INPUT CONNECTIONS



AUDIO INPUT AND OUTPUT CONNECTIONS

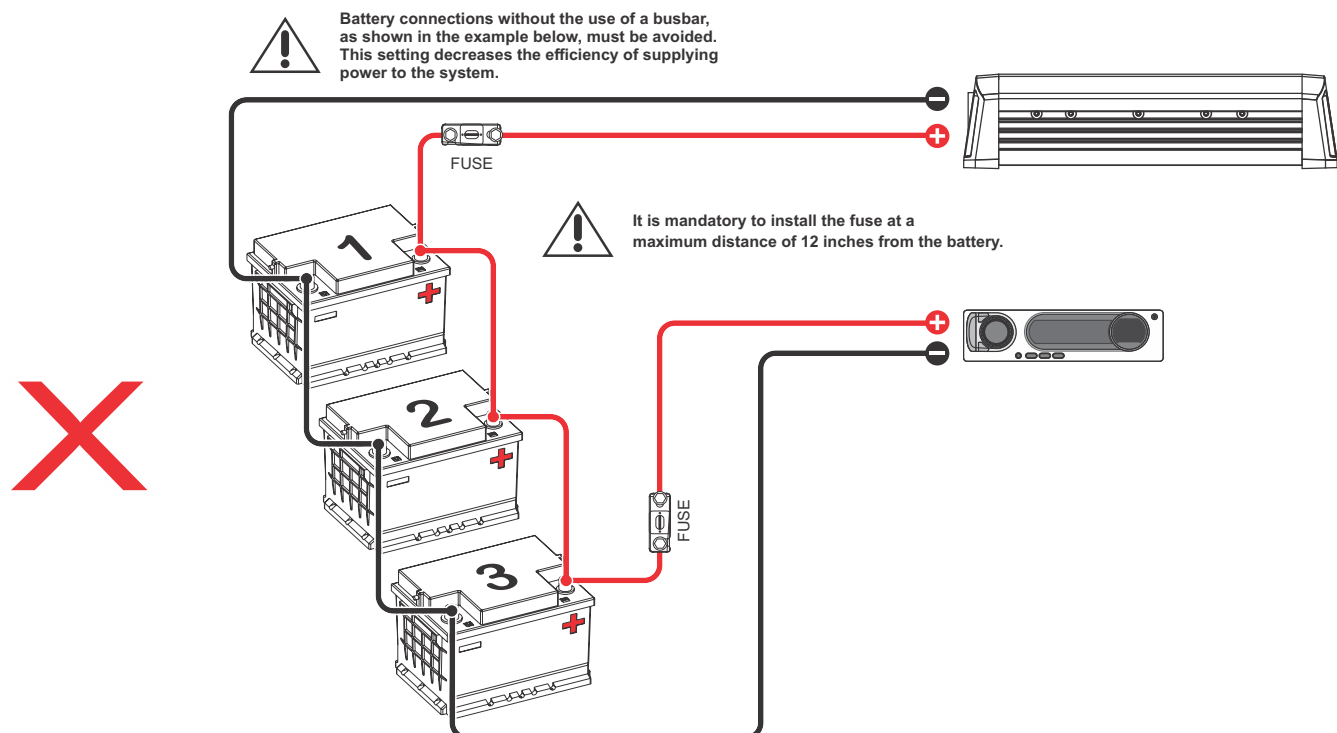
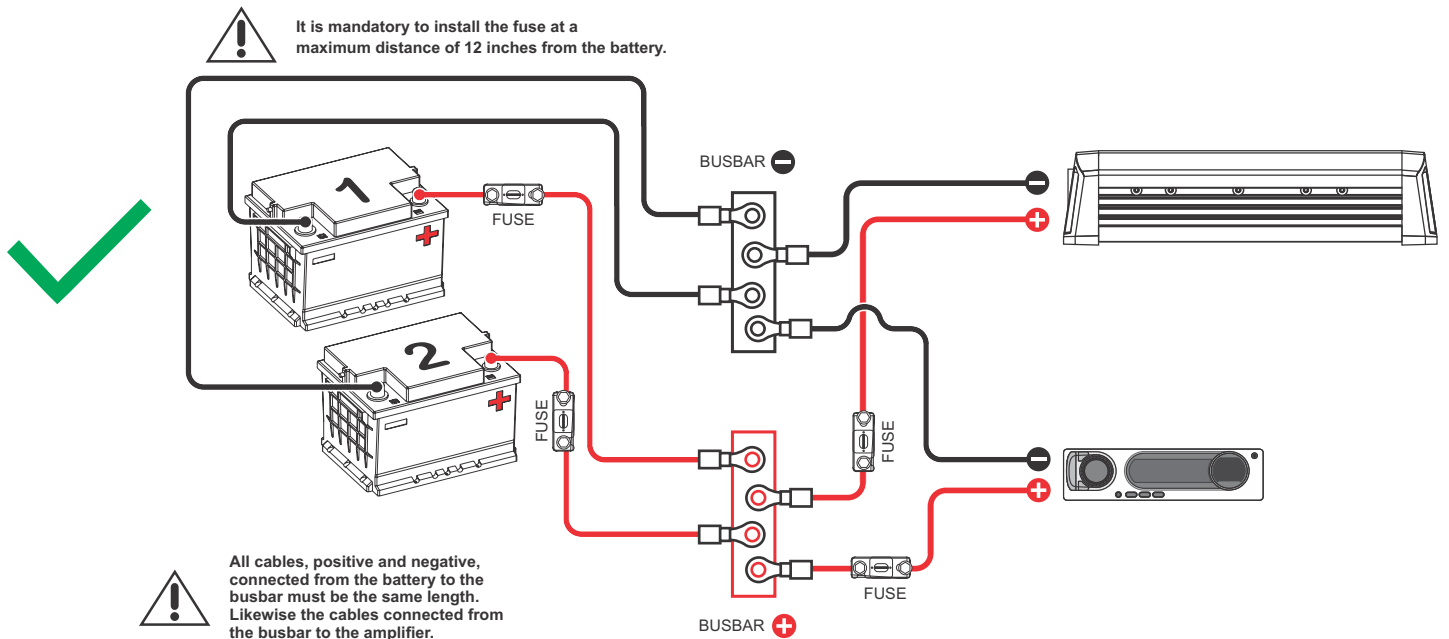


All RCA must be connected for the amplifier to function properly.



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.

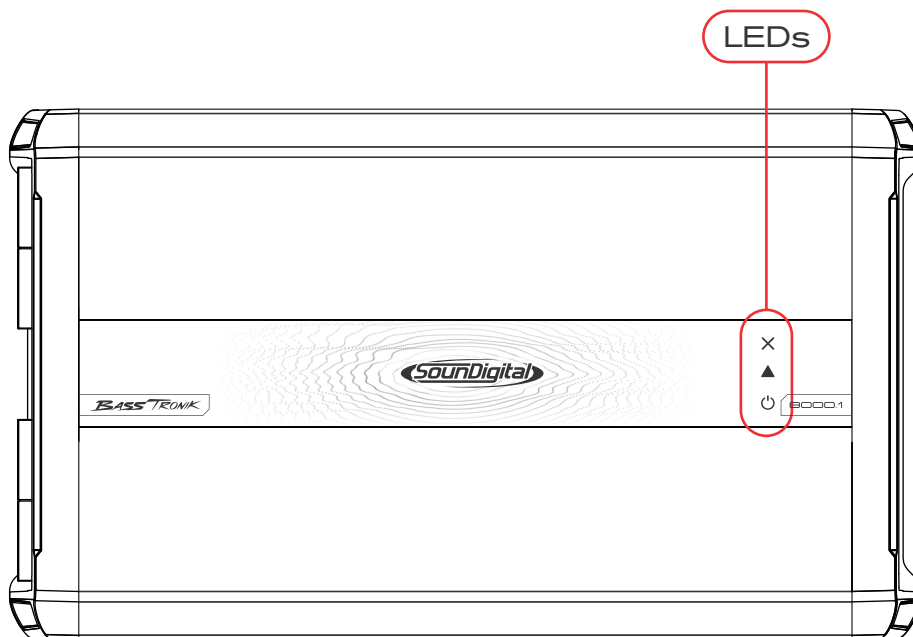
For an ideal energy performance, we recommend that all batteries be connected to positive and negative busbars and the busbars connected to the amplifier, as shown in the diagram below:



 **"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.

 **"PROTECTION" LED indicator (red)**
LED "PROTECTION" Off..... Product operating normally.



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.
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.
When audio is cut off and the red LED remains on.	Temperature protection.	<ul style="list-style-type: none"> •Check whether the amplifier has obstructed ventilation inlets or is exposed to sunlight. •Check that the minimum connection impedance has been respected. •Keep the amplifier turned on until it reaches normal operating temperature and audio is restored.
Red LED flashes before the yellow one or in sync with the music.	Undersized battery or cables.	<ul style="list-style-type: none"> •Check that the battery and cables are sized as specified in the parameter table in this manual.
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	8000.1 BASSTRONIK 1Ω	8000.1 BASSTRONIK 2Ω
Power RMS @ 4Ω**	3800W	5300W
Power RMS @ 2Ω**	5300W	8000W
Power RMS @ 1Ω**	8000W	N/A
Frequency Response (-3dB)	5Hz ~ 250Hz	5Hz ~ 250Hz
Subsonic Filter (12dB/octave)	5Hz ~ 40Hz	5Hz ~ 40Hz
Low Pass Filter (12dB/octave)	50Hz ~ 250Hz	50Hz ~ 250Hz
Bass Boost	0dB ~ 10dB @ 35Hz	0dB ~ 10dB @ 35Hz
Operating Voltage	10V ~ 16V	10V ~ 16V
SNR	>90dB	>90dB
Input Sensitivity (RCA)	0.2V ~ 2V	0.2V ~ 2V
Input Sensitivity (High Level input)	1.5V ~ 15V	1.5V ~ 15V
Current Draw (music)	387.1A	382.6A
Current Draw (max.)	774.2A	765.2A
Total Efficiency	82%	83%
Damping Factor (@100Hz nominal impedance)	>2000	>2000
Power Cable	2 x 70mm ² (00 AWG)	2 x 70mm ² (00 AWG)
Speaker Cable	10mm ² (7 AWG)	10mm ² (7 AWG)
Remote Cable	1.5mm ² (15 AWG)	1.5mm ² (15 AWG)
Recommended Fuse* (music)	2 x 200A	2 x 200A
Recommended Battery (minimum)	450Ah	450Ah

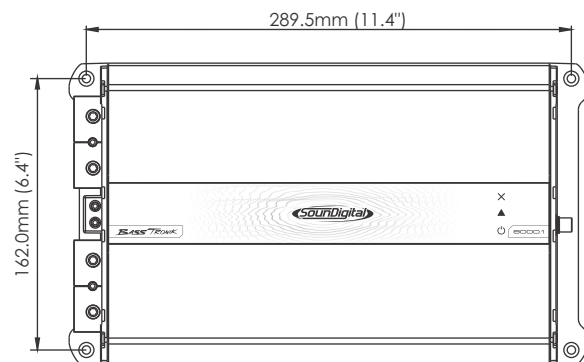
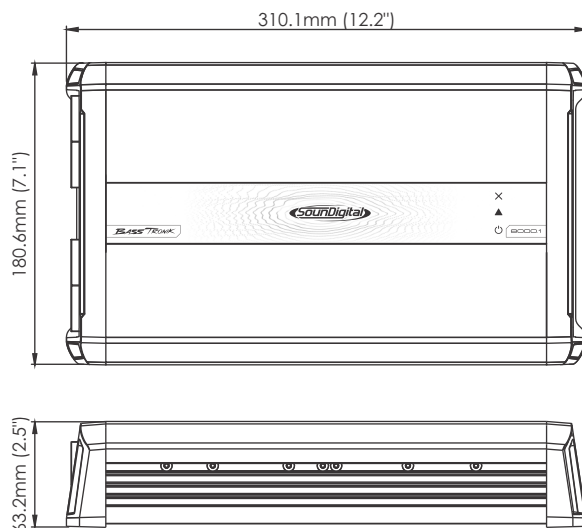
*It is mandatory to install the fuse at a maximum distance of 12 inches from the battery.

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



**POWER RATING ACCORDING TO CTA-2006 INDUSTRY STANDARDS

DIMENSIONAL DATA



Net weight* 3.73 kg (8.22 lb)

Gross weight* 3.99 kg (8.79 lb)

*Weights may vary slightly depending on the manufacturer.

ADDITIONAL INFORMATION

The values presented are based on measurements performed in SounDigital's laboratories. All the equipment used in the assays, tests, measurements and gauging of the technical parameters of SounDigital 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 SounDigital 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.



AUDIO EXCELLENCE

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Association™



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