



OWNER'S MANUAL
400.4 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

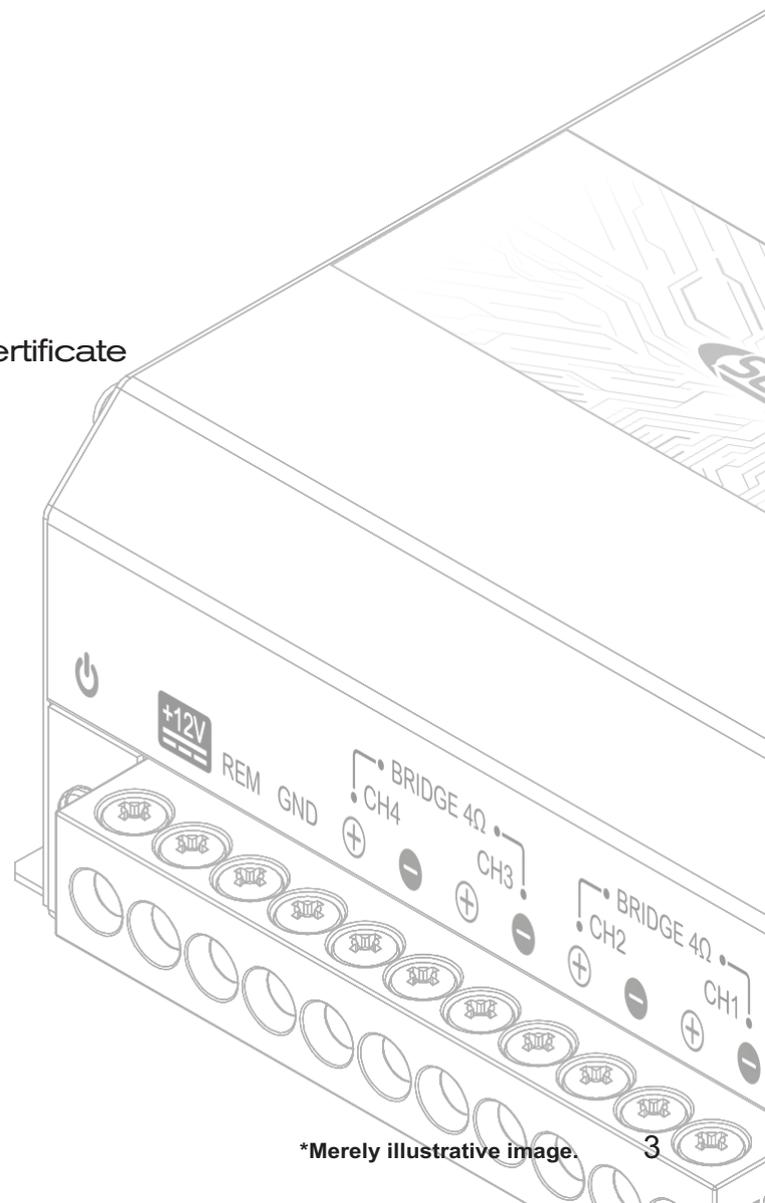
On this manual you will learn about the product, its features and characteristics, in order to obtain the best result and to be able to enjoy your music with SoundDigital quality and power.

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:

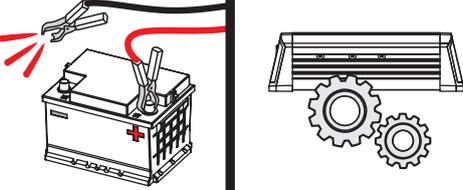
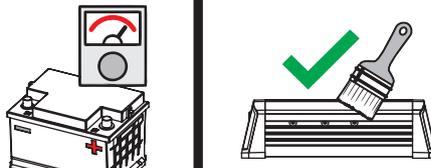
✉ info@sounddigitalusa.com

PACKAGE CONTENTS

- 01 **400.4 EVO6** amplifier
- 01 Quick installation guide with warranty certificate



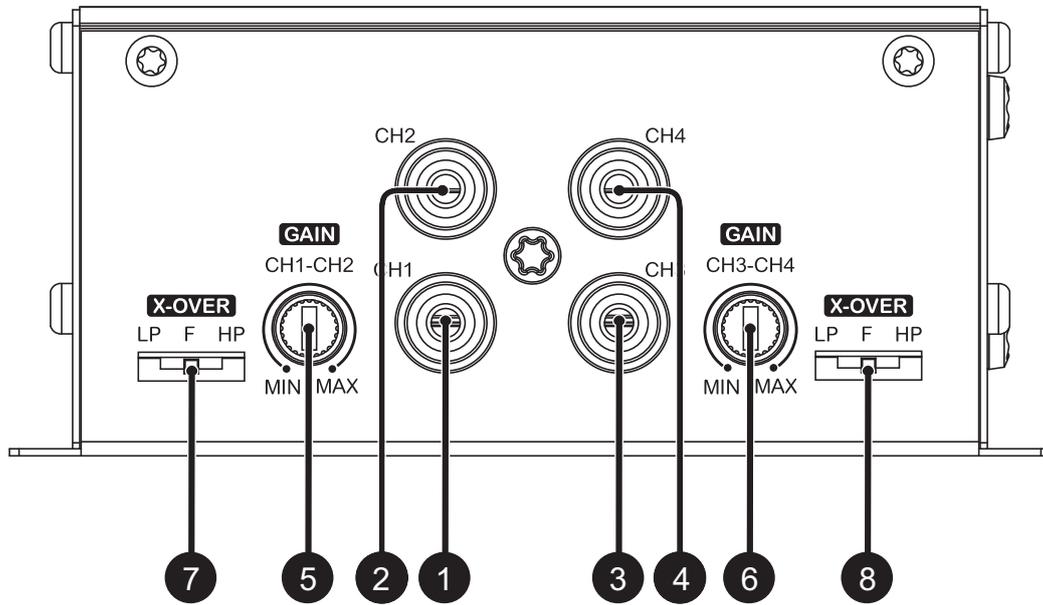
To avoid injury to the user or damage to the amplifier, read all safety instructions written on this manual.

<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 SoundDigital amplifiers.</p>

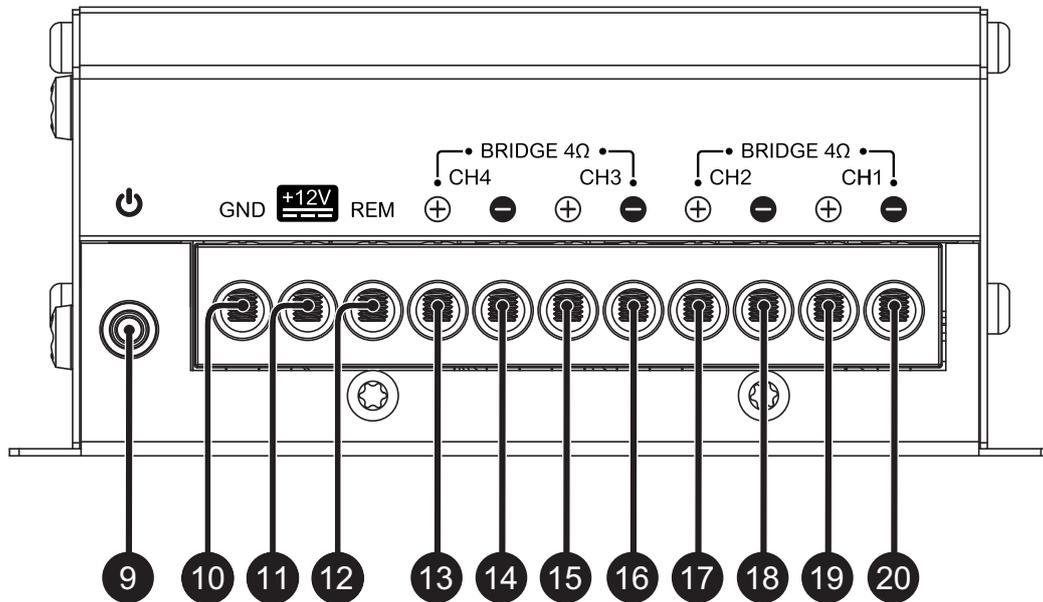


Warning!

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



1	CH1	Audio inputs – RCA connectors
2	CH2	
3	CH3	
4	CH4	
5	CH1/CH2	Variable Gain control
6	CH3/CH4	
7	CH1/CH2	Crossover switch key Low Pass – Full – High Pass
8	CH3/CH4	



9	Blue	"POWER ON" LED indicator
10	-	Negative power supply connector (GND)
11	-	Positive power supply connector (+12VDC)
12	-	Remote power supply connector (REM)
13	CH4	Positive speaker connector (+)
14	CH4	Negative speaker connector (-)
15	CH3	Positive speaker connector (+)
16	CH3	Negative speaker connector (-)
17	CH2	Positive speaker connector (+)
18	CH2	Negative speaker connector (-)
19	CH1	Positive speaker connector (+)
20	CH1	Negative speaker connector (-)



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;

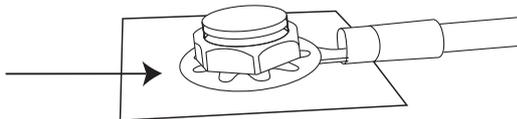


THE MAXIMUM DISTANCE FOR THE INSTALLATION OF THE FUSE/CIRCUIT BREAKER IS 12 INCHES (30cm) AWAY FROM THE BATTERY.

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



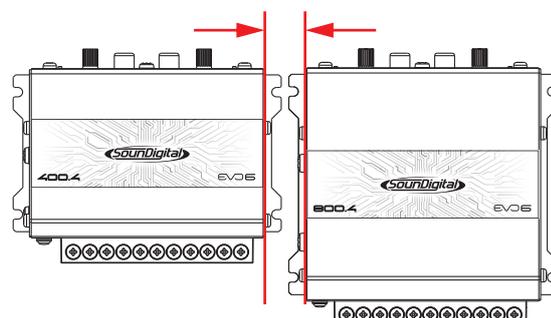
- Install the signal input cables in a proper way, distant from the power cables;
- Connect the RCA cables to the head unit and amplifiers;
- Install the audio output cables with the appropriate section, distant from the power and audio input cables;
- Connect the audio output cables to the amplifier 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.

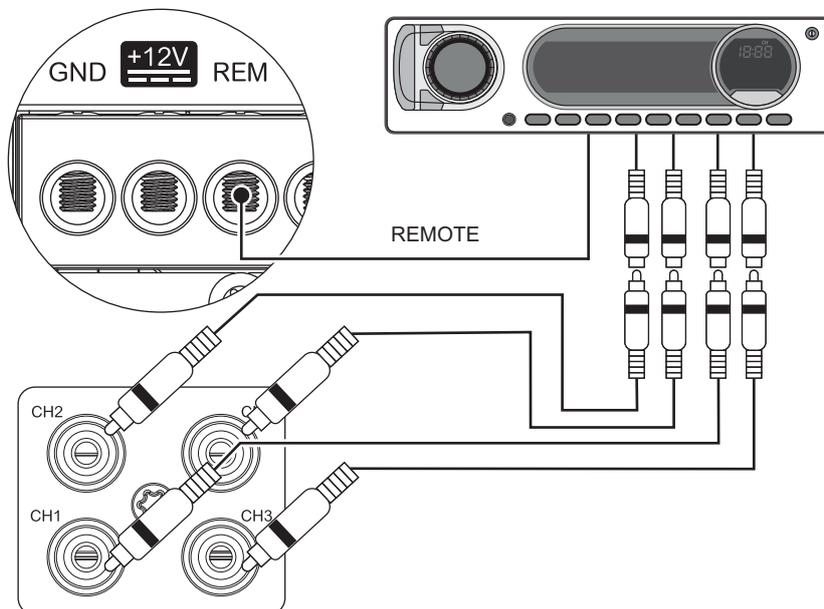
400 WRMS	POWER CABLE (+12VDC)	6mm ² (9 AWG)
	GROUND CABLE (GND)	
	SPEAKER CABLE	1.5mm ² (15 AWG)
	REMOTE CABLE	1.5mm ² (15 AWG)

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

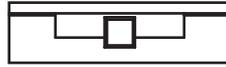
RCA inputs



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

X-OVER

LP F HP

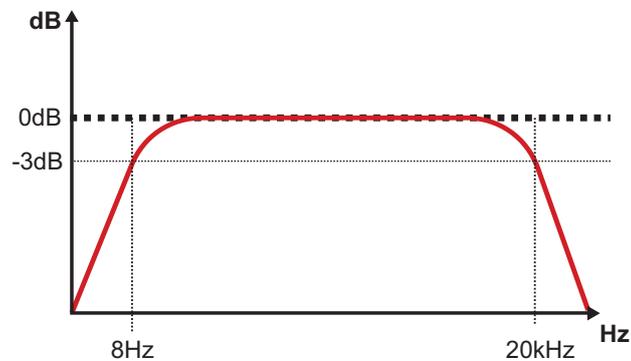


"F" All the frequencies will be reproduced

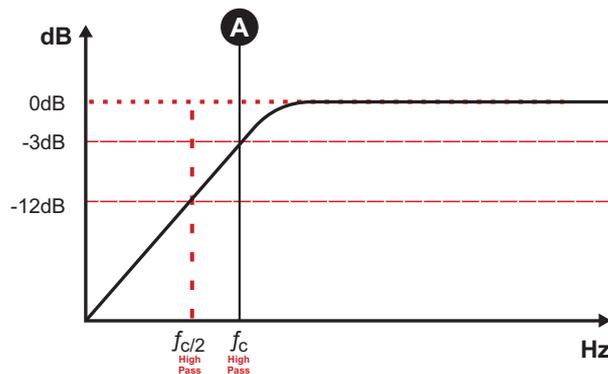
"LP" Frequencies below 80Hz will be reproduced

"HP" Frequencies above 80Hz will be reproduced

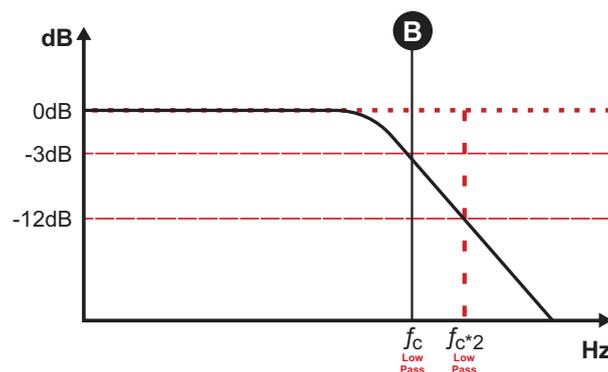
- Change the switch to "F" position (Full Range) - All frequencies will be reproduced as shown in the figure below;



- Change the switch to "HP" position - All frequencies above 80Hz will be reproduced as shown in the figure below;



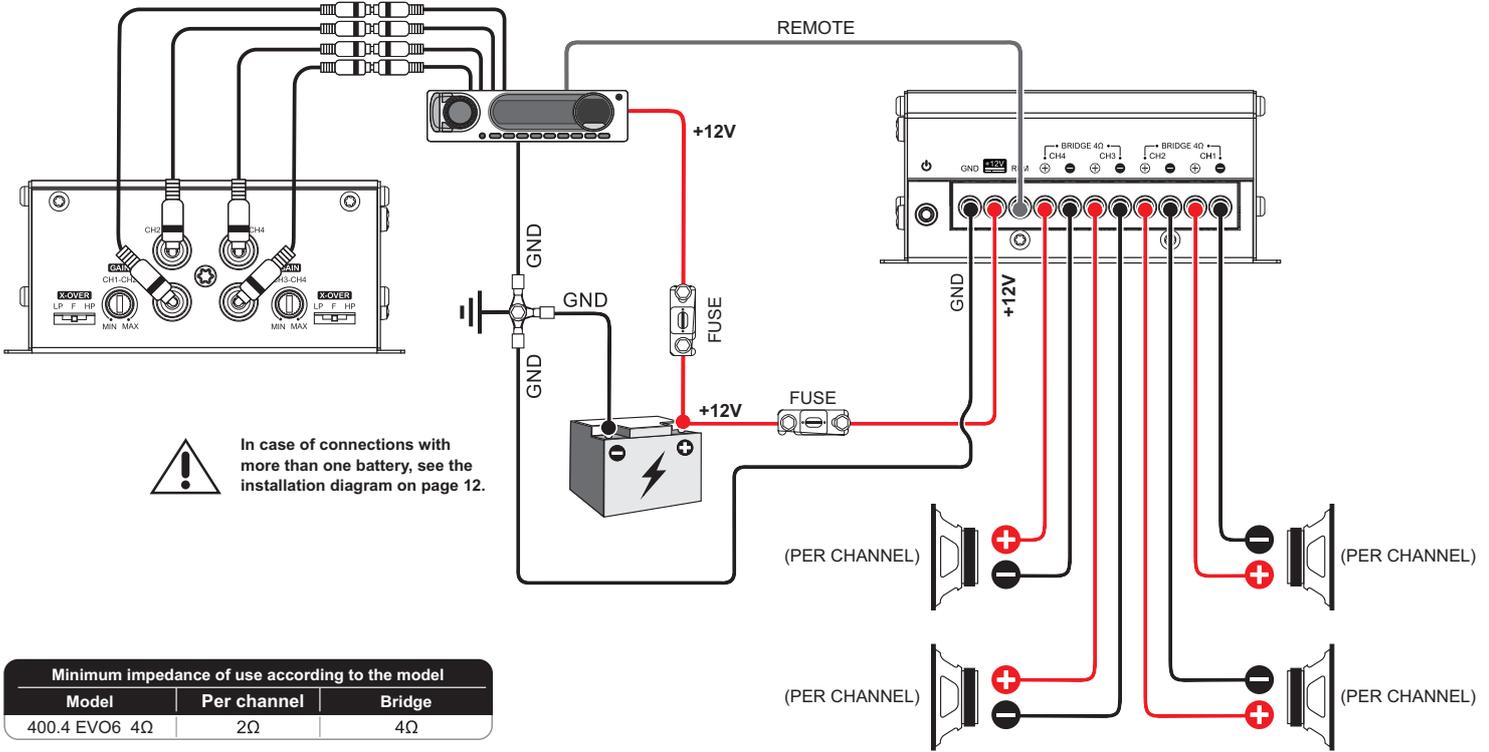
- Change the switch to "LP" position - All frequencies below 80Hz will be reproduced as shown in the figure below.



4 CHANNELS WIRING DIAGRAM (PER CHANNEL)



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



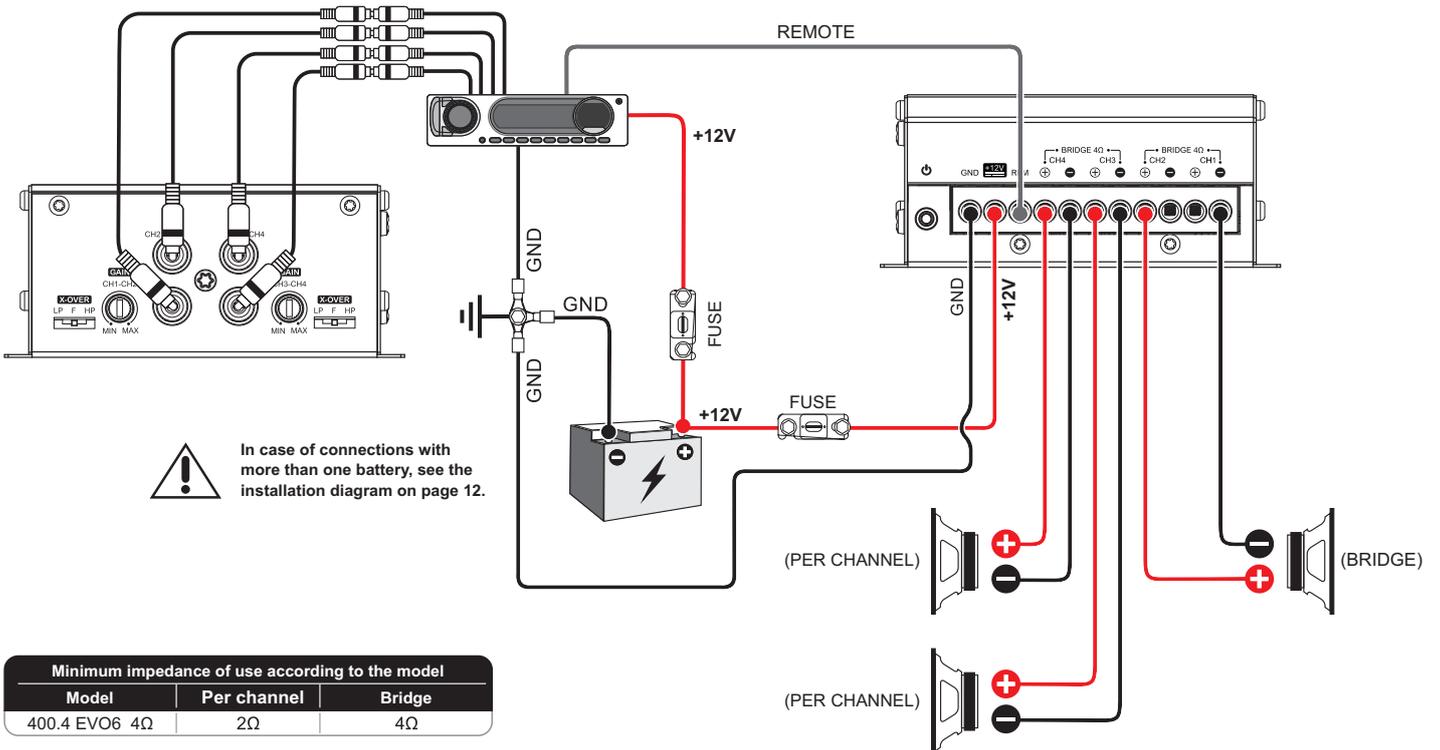
In case of connections with more than one battery, see the installation diagram on page 12.

Minimum impedance of use according to the model		
Model	Per channel	Bridge
400.4 EVO6	4Ω	2Ω
	2Ω	4Ω

3 CHANNELS WIRING DIAGRAM



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



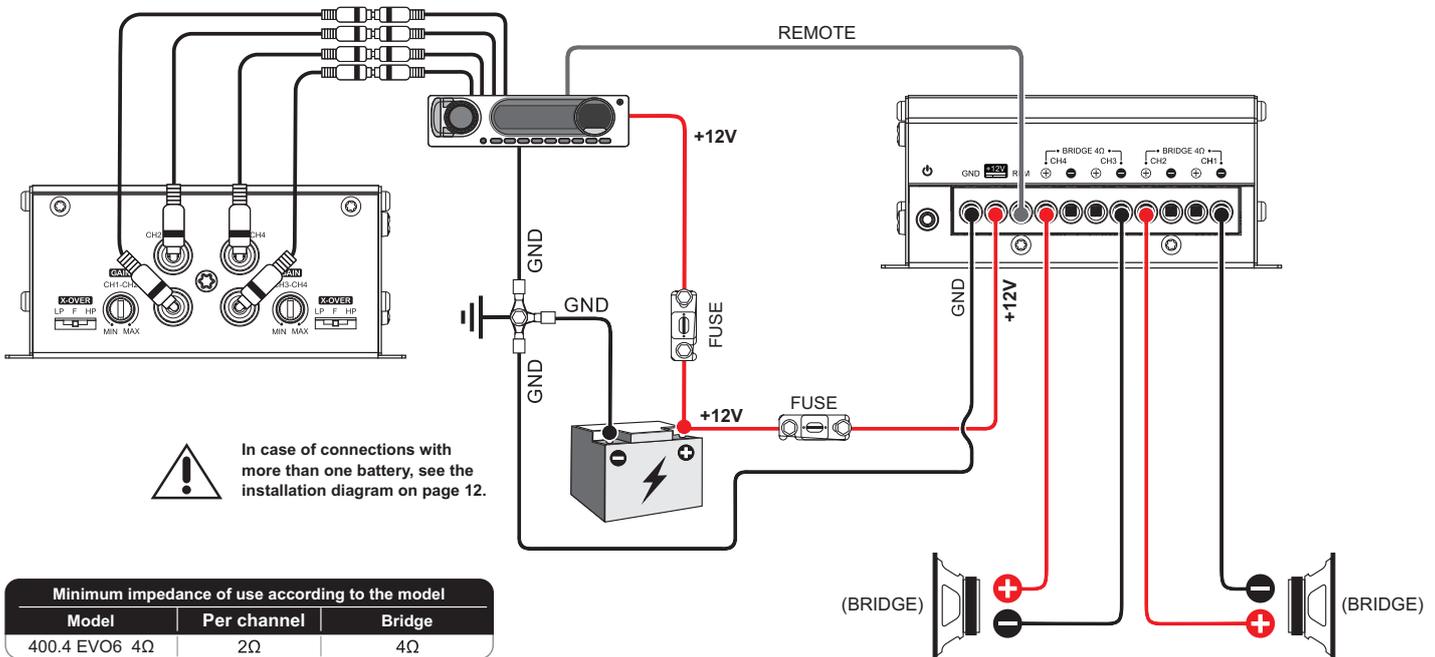
In case of connections with more than one battery, see the installation diagram on page 12.

Minimum impedance of use according to the model		
Model	Per channel	Bridge
400.4 EVO6	4Ω	2Ω
	2Ω	4Ω

2 CHANNELS WIRING DIAGRAM (BRIDGE)



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



Minimum impedance of use according to the model

Model	Per channel	Bridge
400.4 EVO6 4Ω	2Ω	4Ω

GAIN SETTING

Necessary equipment:

- Digital AC voltmeter;
- Media with sine wave test tone 60Hz recorded at 0db.

Set up procedure:

- This procedure is the same for both gain controls;
- 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 audio player volume to 3/4 of full volume;

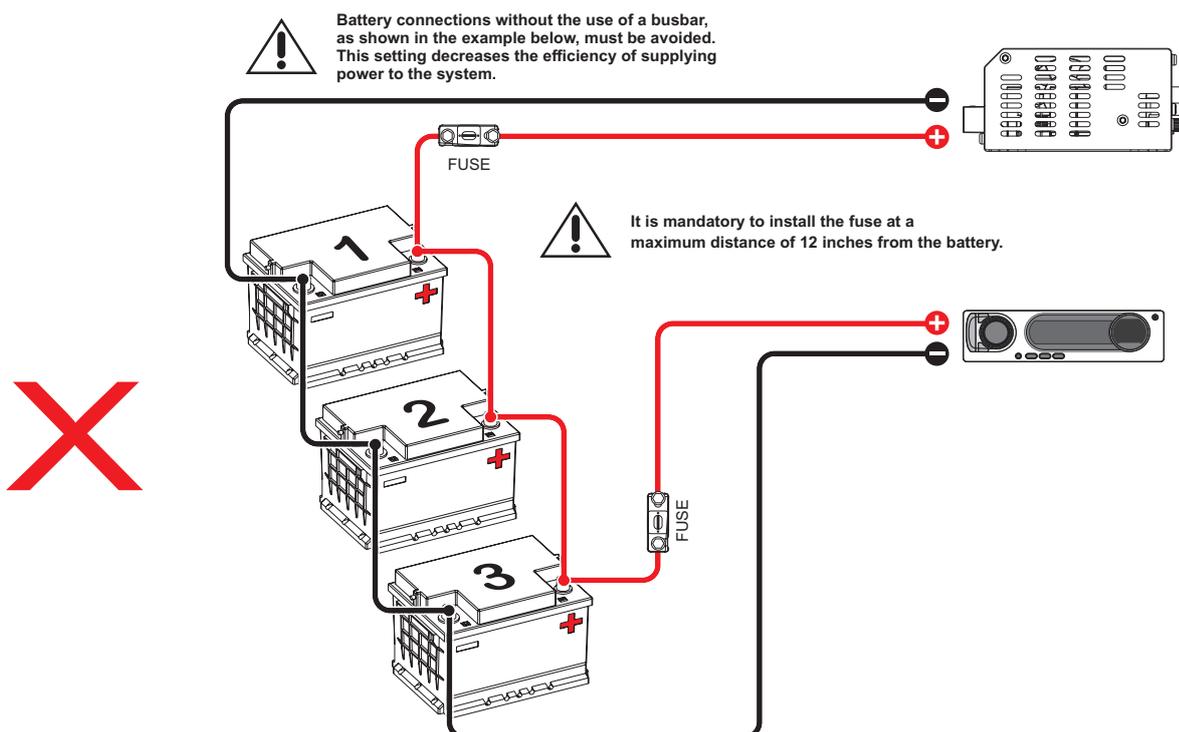
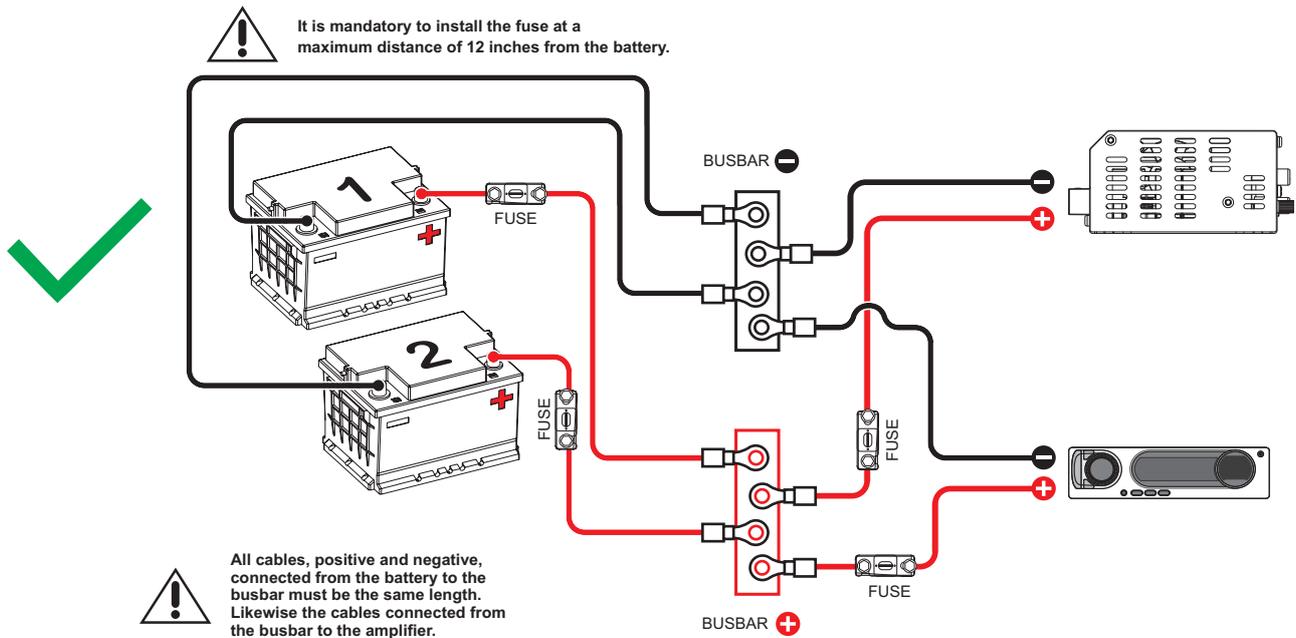
- On the audio player, set the fader control to center position;
- Set the crossover selector switch in "F";
- Use a 60Hz sine wave;
- Connect the AC voltmeter to the speaker output connectors of the amplifier. Make sure you test the voltage at the correct connectors (+ and -);
- Increase the gain control until the target voltage is observed with the voltmeter (see the chart below);
- Once you have adjusted the amplifier to the correct voltage output, turn off the source unit and reconnect the speaker(s).

MODEL	STEREO / POWER	BRIDGE / POWER	STEREO OUTPUT VOLTAGE	BRIDGE OUTPUT VOLTAGE
400.4 EVO6 4Ω	2Ω / 100W	4Ω / 200W	14.14V	28.3V

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

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.

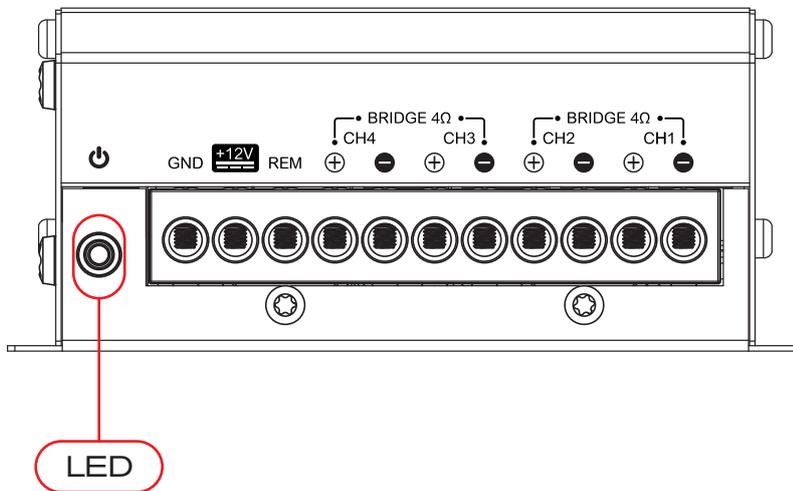
For an ideal energy performance, we recommend that all batteries be connected to positive and negative busbars and the busbars connected to the amplifier, as shown in the diagram below:



**"POWER" LED indicator (blue)**

LED "POWER" Off..... Product off.

LED "POWER" On Product on.



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.	•Check if the power and remote signal cables are connected correctly.
When audio is cut off.	Low or very high supply voltage.	•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.
Abnormal noise from the speakers.	Ground fault.	•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.	•Check whether the car radio's RCA grounding or the RCA cable's grounding mesh are broken.
Weak bass.	Phase cancellation between speakers.	•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.	•Check the connection of the RCA cables and output cables. •Check the car radio volume, balance or fader settings and audio processor levels.

PARAMETERS	400.4 EV06 4Ω
Power RMS @ 4Ω**	4 x 66W
Power RMS @ 2Ω**	4 x 100W
Power RMS (Bridge) @ 4Ω**	2 x 200W
Power RMS (Bridge) @ 2Ω**	N/A
Frequency Response (-3dB)	5Hz ~ 30kHz
Low Pass filter (12dB/octave)	80Hz
High Pass filter (12dB/octave)	80Hz
Operating Voltage	9V ~ 16V
SNR	>100dB
Input Sensitivity (RCA)	0.2V ~ 2V
Input Sensitivity (High Level input)	N/A
Current Draw (music)	20A
Current Draw (max.)	40.5A
Power Cable	6mm ² (9 AWG)
Speaker Cable	1.5mm ² (15 AWG)
Remote cable	1.5mm ² (15 AWG)
Recommended Fuse* (music)	25A
Recommended Battery (minimum)	40Ah

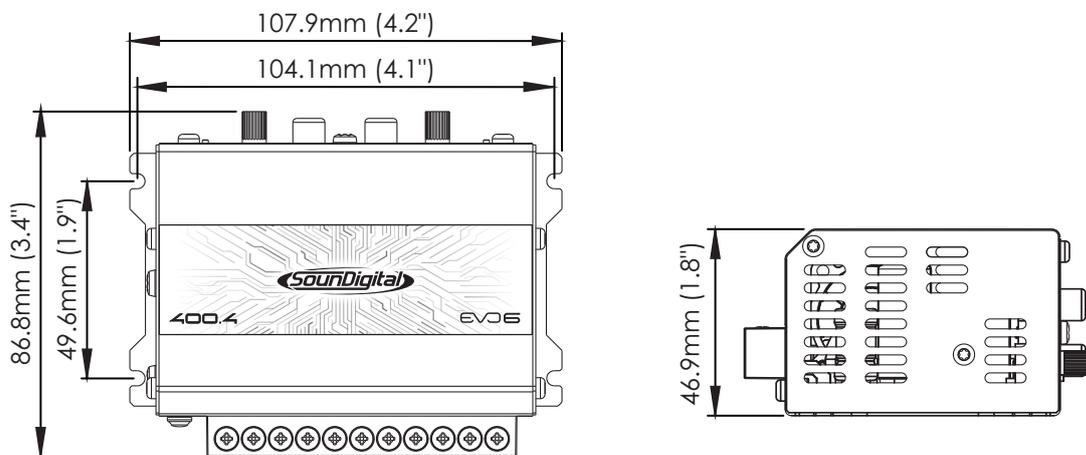
*It is mandatory to install the fuse at a maximum distance of 12 inches from the battery.

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



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

DIMENSIONAL DATA



Net Weight* 0.389 kg (0.857 lb)

Gross Weight* 0.437 kg (0.963 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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