

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

- 1 EVOX2 Amplifier
- 1 Installation quick guide with warranty card
- 1 Allen wrench 2.0mm
- 1 Allen wrench 2.5mm
- 1 Allen wrench 3.0mm
- 2 Cables for high level input
- 1 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®

OUR PATENTED DTM® TECHNOLOGY PROVIDES A FASTER HEAT EXCHANGE BETWEEN THE ELECTRONIC COMPONENTS AND THE HEATSINK, INCREASING THE EFFICIENCY OF OUR AMPLIFIERS AND RESULTING IN LOWER DISTORTION LEVELS DURING LONG PLAYING TIME.



HIGH SOUND WAVE ENERGY WAVE ENERGY ABSORPTION DEVICE

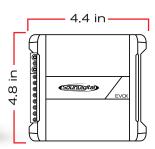
VIBRATION ABSORPTION DEVICE - VAD®

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 IN
A COMPACT CHASSIS, PROVIDING FLEXIBLE
INSTALLATION SOLUTIONS FOR VEHICLES WITH
LIMITED SPACE.





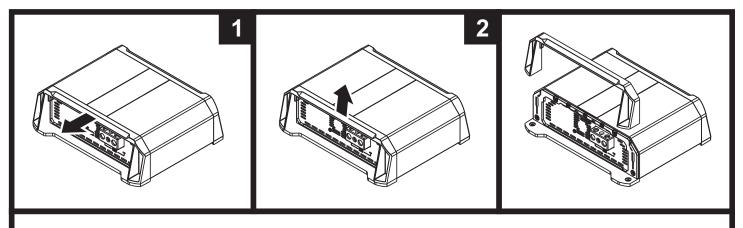


FULL RANGE

VERSATILE PRODUCTS THAT COVER THE ENTIRE AUDIBLE FREQUENCY RANGE, ANY TYPE OF LOUDSPEAKER OR MUSIC PROGRAM.

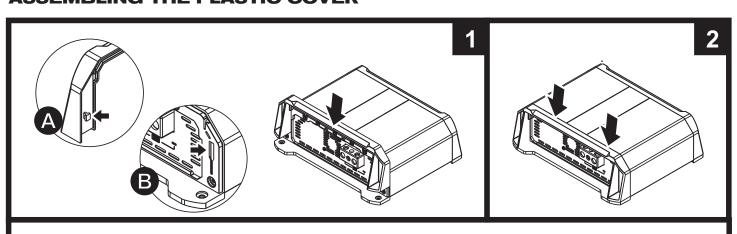
The plastic covers have the function of finishing and hiding the amplifier fixing screws. To disassembling and assembling them, follow the instructions below.

DISASSEMBLING OF THE PLASTIC COVER

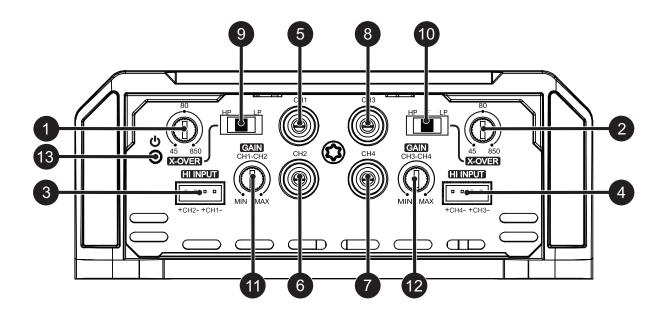


- 1. Carefully pull out the top of plastic cover to release the upside latches, as shown in the picture 1.
 - 2. Slide up the plastic cover in a continuous movement to remove it.

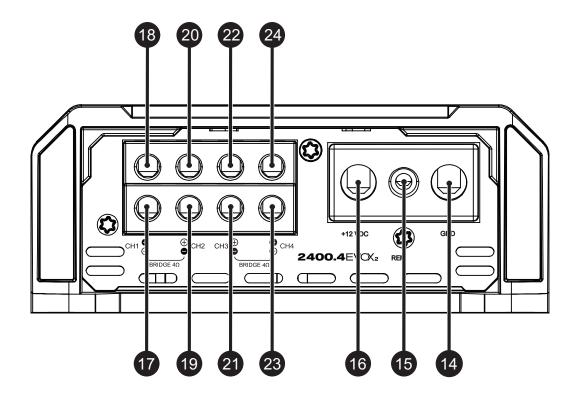
ASSEMBLING THE PLASTIC COVER



- 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.



1	CH1/CH2	Variable crossover control - 45Hz to 850Hz	
2	CH3/CH4		
3	CH1/CH2	High Level audio input	
4	CH3/CH4	(To connect to the speaker output of the headunit)	
5	CH1		
6	CH2	Audia input DCA connector	
7	CH4	Audio input - RCA connector	
8	CH3		
9	CH1/CH2	Crossover Switch	
10	CH3/CH4	Low Pass - Full - High Pass	
11	CH1/CH2	Variable Gain Control	
12	CH3/CH4		
13	-	"Power ON" LED indicator (Blue)	



14	-	Negative power supply connector (GND)
15	-	Remote power supply connector (REM)
16	-	Positive power supply connector (+12VDC)
17	CH1	Positive speaker connector
18	CITI	Negative speaker connector
19	CH2	Negative speaker connector
20	CI 12	Positive speaker connector
21	CH3	Negative speaker connector
22	СПЗ	Positive speaker connector
23	CH4	Positive speaker connector
24	Ci 14	Negative speaker connector

ELECTRICAL DIMENSIONING

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

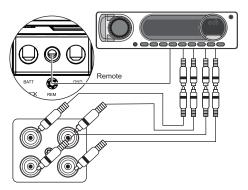
The table below shows the minimum section of GND cables, +12VDC cables and speaker output cables according to the power generated by the amplifier.

2400 WRMS	POWER CABLE GROUND CABLE	21mm² - 4 AWG
	SPEAKER CABLE	2 x 2mm² - 12 AWG

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

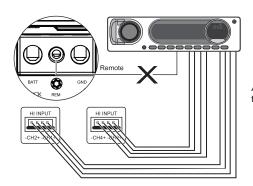
AUDIO INPUTS

RCA Inputs



All RCA Inputs must be connected for the 4 channels to work.

High signal inputs



All High signal Inputs must be connected for the 4 channels to work.

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

When hi 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 INPUTS SHOULD NOT BE USED SIMULTANEOUSLY OR YOU MAY DAMAGE THE AMPLIFIER.



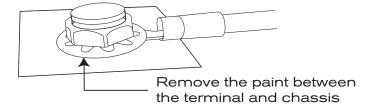
BEFORE PROCEEDING WITH THE INSTALLATION, UNPLUG THE NEGATIVE TERMINAL FROM ALL OF THE BATTERIES, TO AVOID FIRE, DAMAGE TO THE AMPLIFIER AND THE Warning! USER HIMSELF.

- 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 MAX. DISTANCE FOR THE INSTALLATION OF THE FUSE/CIRCUIT BREAKER IS ONE FOOT (30 CM) AWAY FROM THE BATTERY.

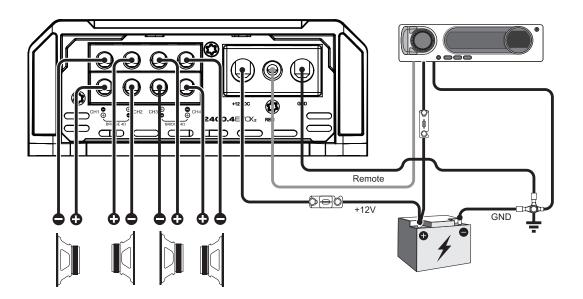
- Connect the power cables in to the amplifier, observing the polarity. Connect all the positive cables from the fuse holder or circuit breaker to the positive conector of the amplifier and all the negative power cables from the batteries to the negative connector of the amplifier;
- The ground cable 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 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 headunit 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.

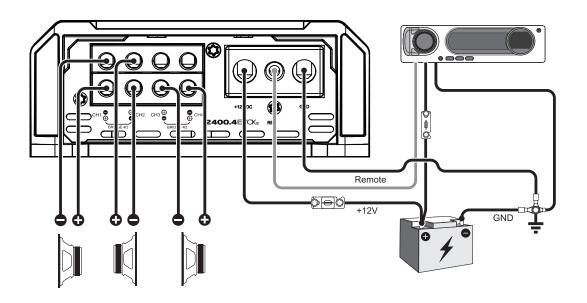
4 CHANNEL WIRING DIAGRAM

See "Audio Inputs" on page 10



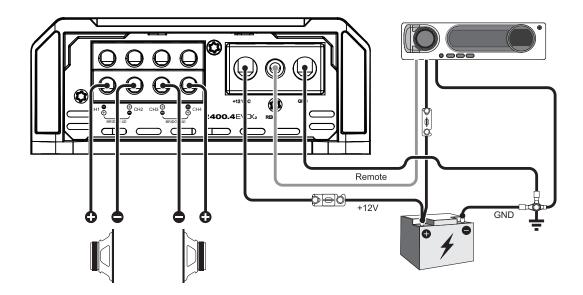
3 CHANNEL WIRING DIAGRAM

See "Audio Inputs" on page 10



2 CHANNEL WIRING DIAGRAM

See "Audio Inputs" on page 10



GAIN SETING

Necessary equipament:

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

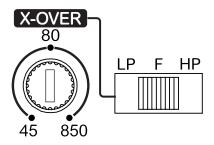
Set up procedure

- ø This procedure is the same for both gain controls;
- ø Turn the gain control all the way down.
- Ø 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 crossover selector switch in "F"
- Use a 60 Hz 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 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/

MODEL	STEREO / POWER	BRIDGE / POWER	STEREO OUTPUT VOLTAGE	BRIDGE OUTPUT VOLTAGE
2400.4EVOX2 20	1Ω/ 600W	2Ω/ 1200W	24.5 V	49.0 V
2400.4EVOX2 40	2Ω/ 600W	4Ω/ 1200W	34.6 V	69.3 V

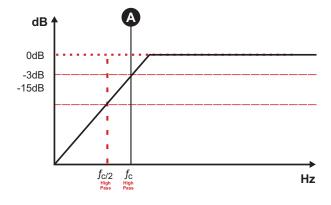


"F" All the frequencies are reproduced;
"LP " Set in the variable control on Low Pass Function;
"HP " Set in the variable control on High Pass Function.

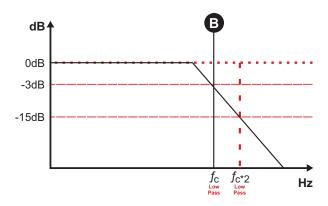
> Switch Key to "F" position (Full Range): All the frequencies are reproduced.



> Switch key to "HP" - Set in the variable control between 45Hz and 850Hz ("A") where you want to perform the high pass cut filter;

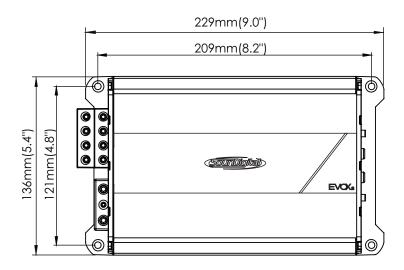


> Switch key to "LP" - Set in the variable control between 45Hz and 850Hz ("B") where you want to perform the low pass cut filter;

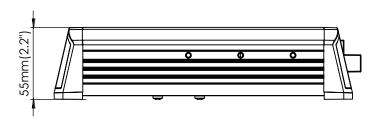


PARAMETERS	2400.4 EVCX2 2Ω	2400.4 Ε/CX ₂ 4 Ω
Power RMS Bridge @ $2\Omega^*$	2 X 1200W	N/A
Power RMS Bridge @ 4Ω*	2 X 792W	2 X 1200W
Power RMS @ 1Ω*	4 X 600W	N/A
Power RMS @ 2Ω*	4 X 396W	4 X 600W
Frequency Response (-3dB)	5Hz ~ 22kHz	5Hz ~ 22kHz
Low Pass filter (12dB/oct)	45Hz ~ 850Hz	45Hz ~ 850Hz
High Pass filter (12dB/oct)	45Hz ~ 850Hz	45Hz ~ 850Hz
Operating Voltage	8V ~ 16V	8V ~ 16V
SNR	90dB	90dB
Input Sensitivity	0.2 ~ 4V	0.2 ~ 4V
Current Draw (Music)	104A	104A
Current Draw (Max)	208A	208A
Total Efficiency	80%	80%
Damping Factor (@100Hz nominal impedance)	200	200
Stereo Minimum Impedance	1Ω	2Ω
Bridge Minimum Impedance	2Ω	4Ω
Fuse (music)	120A	120A
Recommended batery	120Ah	120Ah

DIMENSIONAL DATA



Net Weight: 3.65 lb (1.66 kg) Gross Weight: 4.01 lb (1.82 kg)





YOUR MUSIC. YOUR POWER.



Consumer Technology Association









