



NANO technology

3000.1D

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1 3000.1D NANO Amplifier

1 Owner's Manual

1 Promotional Sticker

Dear Customer,

Congratulations on acquiring your SounDigital! You've just purchased a product of high quality and technology. The SounDigital products are developed to assure maximum efficiency and reliability to your sound system.

IMPORTANT INFO

Read this manual and follow its instructions and information carefully. It contains extremely important information to have your amplifier working properly. If you feel the need to contact our Tech Support, you can reach our technicians through the e-mail info@soundigitalusa.com.

We recommended the use of SounDigital original accessories for better performance. The crossovers, power supplies and voltmeters offered by SounDigital follow the same quality standards as our amplifiers, assuring an excellent quality and high-power sound system to our customers.

To know our complete line of amplifiers and accessories, visit www.soundigitalusa.com.



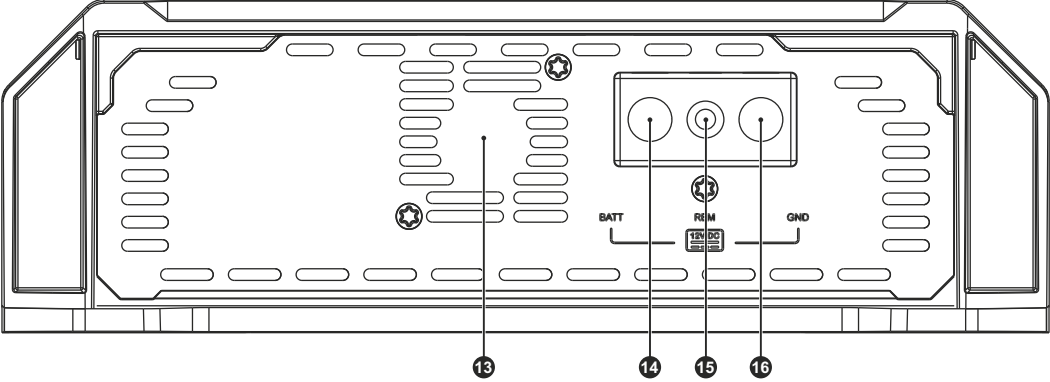
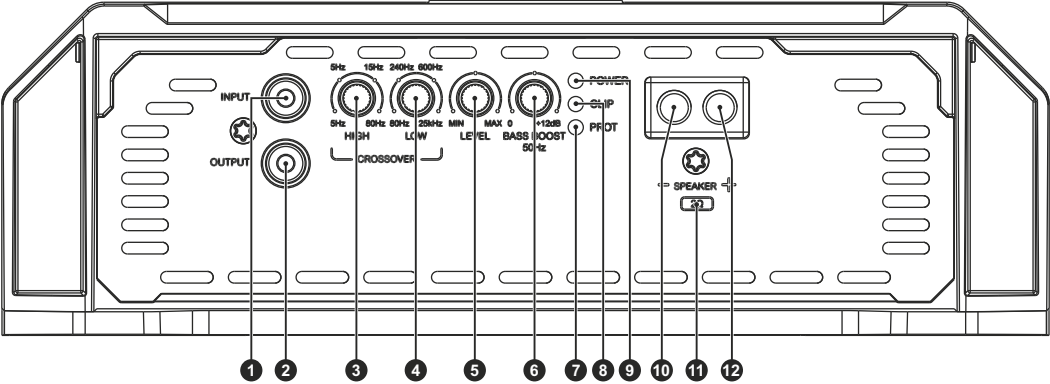
Warning!

This "Warning" sign alerts the user of important info. Not following these instructions may cause injuries to the user or damage to the equipment.



SECURITY INSTRUCTIONS


- To prevent personal injuries or damage to the amplifier, read all the safety instructions written on this manual.
- If you have questions 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, exposure to continuous sound pressure over 85 dB may cause irreversible hearing loss.
- This equipment is for use in automotive DC voltage batteries, between 12.6 and 14.4 volts. Before installing the equipment, check the voltage of the batteries;
- Do not install the amplifier in places exposed to water, dirt or humidity;
- Install the amplifier in an vented location and avoid obstructing the side ventilation windows;
- Secure the amplifier properly and firmly. Avoid fixing to metal parts, as this may cause ground "looping" (noise);
- Wear gloves, safety glasses and all necessary PPE during the installation of SounDigital amplifiers;
- Make sure the cables are properly fixed throughout the installation;
- Be careful when making holes in the vehicle. Make sure you're not making holes in the fuel tank, brake lines or electrical cables of the vehicle;
- Use rubber O-rings when passing wires to metal walls to prevent them from being cut off and short-circuiting;
- Make sure that the location chosen for installation of the amplifier does not impair the operation of the vehicle;



- 1 Audio input RCA connector;
- 2 Audio output RCA connector;
- 3 Variable high pass filter control (5Hz ~ 80Hz);
- 4 Variable low pass filter control (80Hz ~ 25kHz);
- 5 Variable signal gain control;
- 6 Variable bass boost control (0dB ~ +12dB);
- 7 "Protection" LED indicator (Red);
- 8 "Clip" LED indicator (Yellow);
- 9 "Power On" LED indicator (Blue);
- 10 Negative speaker connector (-);
- 11 Minimum output impedance;
- 12 Positive audio output connector (+);
- 13 Cooler fan;
- 14 Positive power supply connector (+12V);
- 15 Remote power supply connector (REM);
- 16 Negative power supply connector (GND);

INSTALLATION SEQUENCE

- Before proceeding with the installation, unplug the negative from all of the batteries;
- Affix the amplifier in such a way you have access to the connectors;
- Install the power cables on the vehicle in a proper way. From the battery to the busbar, fuse holder or circuit breaker. Chose the appropriate section for the cable.
- Make all of the connections to the busbars fuse holders or circuit breakers, with no fuses in the holder and with the circuit breakers in the "Off" position;

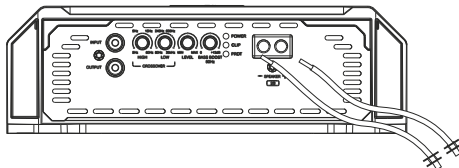
 **The max. distance for the installation of the fuse/circuit breaker is one foot away from the battery.**

- 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 busbar or from the batteries, to the negative connector of the amplifier;
- 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;
- Install the remote cable with the power cables, using a section of 1.5mm² or thicker;
- Connect the remote cable to the REM terminals on the amplifier and to a 12V power supply activated by a switch key or to the remote power output of the head unit;
- 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 remote key is in the "Off" position and if the head unit is turned off, then place the fuses in the fuse holders or switch the circuit breakers on.

PROCEDURES FOR SETTING THE GAIN

Para a correta regulagem do ganho do seu amplificador, siga os seguintes passos:

- Turn the gain control all the way down;
- Disconnect the output cables from the amplifier outputs;

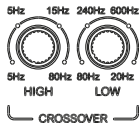


- Turn off all processing (bass, treble, loudness, EQ, etc.). Set the source unit's fader control to center position. Set the source unit volume to 3/4 of full volume;
- Adjust the audio controls of the audio in the center (fader left and right controls);
- Reproduce a 60Hz sine wave signal through the head;



- Turn up the gain clockwise slowly until the "CLIP" LED starts blinking;
- Some head units with higher tension RCA outputs, may reach max power even with the gain set close to minimum. In such cases, limit the volume of the head unit in such a way the "CLIP" LED will not blink.

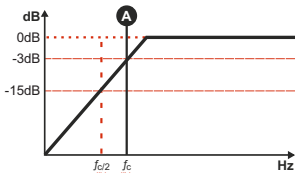
CROSSOVER ADJUSTMENT



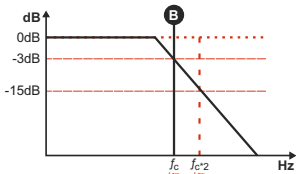
⚠ 'Full Range' Use – (all frequencies playback) - For all frequencies playback, the "HIGH" variable control shall be set to 5Hz, and the "LOW" variable control to 20kHz;



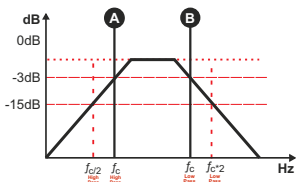
➤ Use in "High Pass" cut filter (HIGH) 12dB/oct – Set in the "LOW" variable control to 16kHz and in the "HIGH" variable control, set "A" frequency between 5Hz and 80Hz, where you want to perform the high pass cut filter;



➤ Use in "Low Pass" cut filter (LOW) 12dB/oct – Set in the "HIGH" variable control to 5Hz and in the "LOW" variable control, set "B" frequency between 80Hz and 20kHz, where you want to perform the low pass cut filter;



➤ Use in "Band Pass" cut filter – Set in the "HIGH" variable control the "A" frequency between 5Hz and 80Hz, where you want to perform the high pass cut filter and set the "LOW" variable control to "B" frequency between 80Hz and 20kHz, where you want to perform low pass cut filter;

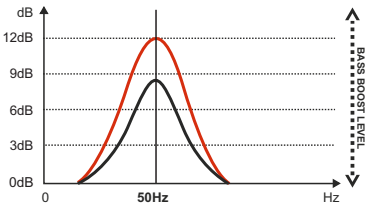


USING BASS BOOST



⚠ Set boost intensity between 0dB and +12dB at the variable control BASS BOOST.

Bass Boost Chart



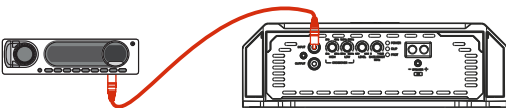
INPUT CONNECTIONS



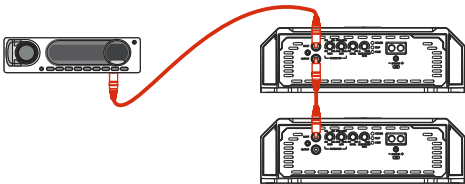
Cuidado!

You should never connect or disconnect RCA cables with the amplifier turned on, because it may damage the head unit or the amplifier.

➤ Example of one RCA cable connection only.

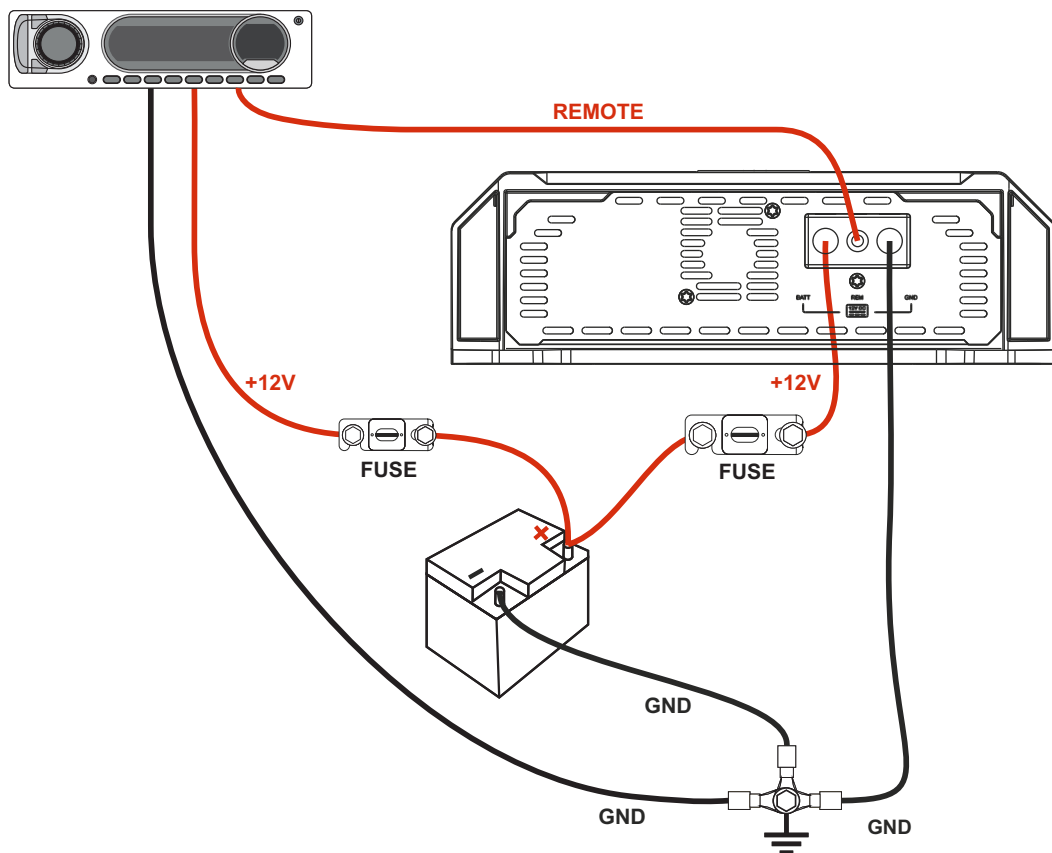
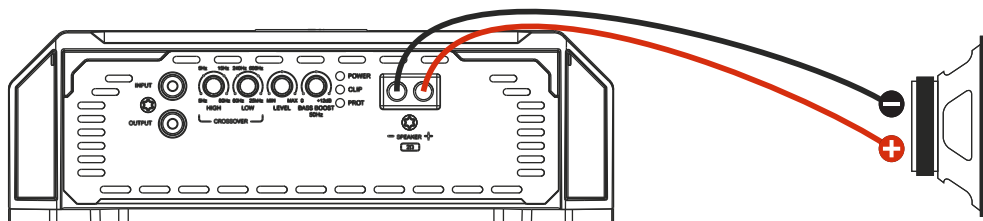


➤ Example of one RCA cable connection only and using the RCA output to connect another amplifier.



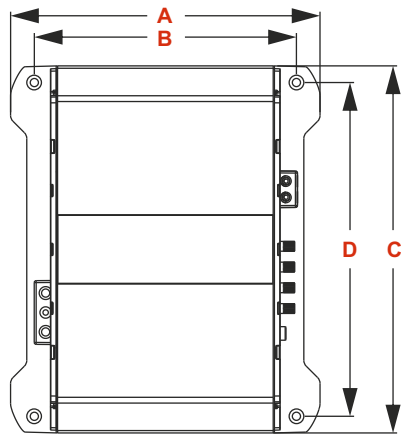
➤ Example of two RCA cables connection.



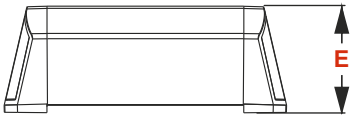


PARAMETER	3000.1D NANO 1Ω	3000.1D NANO 2Ω
RMS Power @ 4Ω*	908W	1650W
RMS Power @ 2Ω*	1650W	3000W
RMS Power @ 1Ω*	3000W	N/A
Frequency response (-3db)	5Hz to 20kHz	5Hz to 20kHz
High Pass Filter	5Hz to 80Hz	5Hz to 80Hz
Low Pass Filter	80Hz to 20kHz	80Hz to 20kHz
Power Supply Voltage	8V to 16V	8V to 16V
SNR	82dB	83dB
Input Sensibility	0,2V to 4V	0.2V to 4V
Current draw (music)	150A	150A
Max. Current draw (resistive load 1kHz @ 12,6V)	302A	302A
Total efficiency (full power @12,6V)	79%	79%
Damping factor	80	80
Gross weight	5.7lbs	5.7lbs
Giftbox dimensions (LxWxH)	9" x 10.2" x 3.9"	9" x 10.2" x 3.9"
Size of recommended cable (power)	2 AWG (35mm²)	2 AWG (35mm²)
Size of recommended cable (output)	2 x 13 AWG (1,5mm²)	2 x 13 AWG (1,5mm²)
Fuse/Circuit breaker (music)	150A	150A
Recommended capacity of the battery	150Ah	150Ah

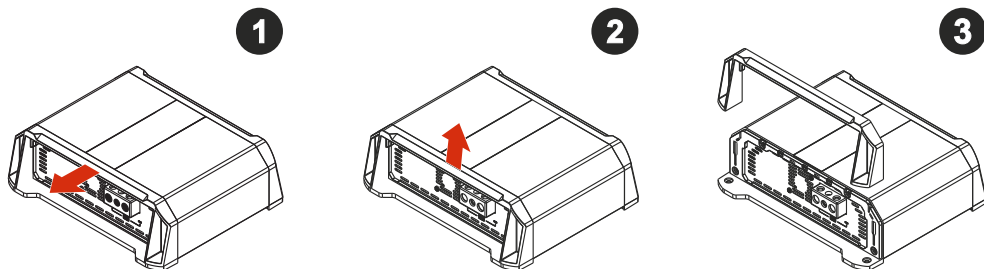
*Power at 14.4V @ 60Hz following the ANSI / CTA-2006B standard with a maximum THD of 1%



DIMENSIONS		
A	7.4"	190mm
B	6.3"	160mm
C	8.8"	225mm
D	8"	204mm
E	2.8"	71,5mm
Net weight	4.4lbs	2kg

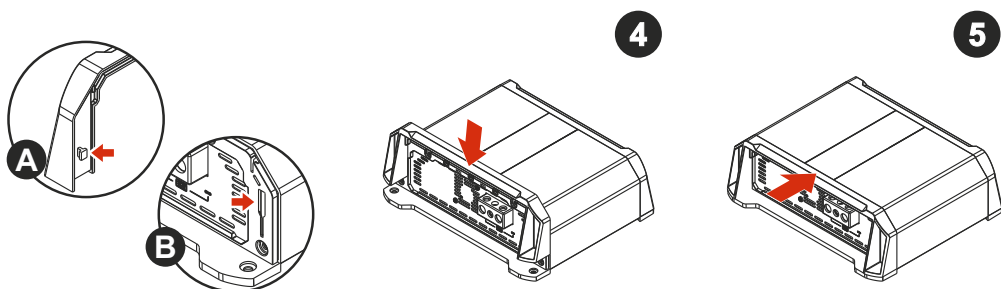


DISMANTLING



- 1 CAREFULLY pull out the top of plastic cover to release the upside latches, as shown in the picture.
- 2 In a continuous movement, slide up the plastic cover, removing it.
- 3 The cover is removed.

MOUNTING



- 4 Approach the plastic cover to amplifier profile in way to perfect fit of points A and B, and slide it down.
- 5 Gently press the top of plastic cover against the amplifier until hear a **CLICK** noise of upside latches.

SounDigital warrants the original purchaser that this product shall be free of defects in materials and workmanship for a period of twelve (12) months from the original date of purchase. Some countries have extended warranty in case the product is installed by an authorized dealer. This warranty is not transferrable and applies only to the original customer from an authorized SounDigital dealer.

Warranty is void when:

- Defect or problem caused by misuse of the product;
- Incorrect installation or non-conformity with the Manual;
- Maintenance made by unauthorized personnel;
- Alteration or removal of the seal/serial number;
- Exposure to adverse conditions (weather, humidity, etc);
- Damage caused by fall, impact or natural depreciation, caused by transport and/or handling, risks, or smashings;
- Products purchased more than 12 months ago.

Warranty covers:

- Component or material with manufacturing defects;
- Workmanship/service needed to repair the equipment;
- If you need service on your **SounDigital** product, send it to **SounDigital's** Amplifier Repair Center through an authorized **SounDigital** dealer (must be accompanied by proof of purchase);
- Any extra information you can get by contacting us at the e-mail address: info@soundigitalusa.com;
- In case of manufacturing defect or bad quality of raw material, the max compensation will be the replacement of the product, not allowing any kind of compensation payment;
- New modifications/iterations on a product don't obligate the manufacturer to modify products formerly produced.



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