



XFX 3000.1

1-OHM STABLE CLASS D
FULL DIGITAL
MONOBLOCK AMPLIFIER

3000W
Dynamic Power

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5000W
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USAMPS.COM/REAUDIO.COM

INTRODUCTION

Thank you for purchasing our car audio amplifier. This power amplifier has been designed to provide the highest performance with minimum maintenance. However, its performance will only be as good as the care and quality of components with which is installed. We therefore advise that you read these instructions very carefully to familiarize yourself with the product and its features. Before installing the power amplifier please read this instruction manual carefully. The instructions for mounting and connecting the amp have to be followed precisely. If necessary, a service center should be consulted. All connection for DC power, signal input and speaker outputs can be carried out easily and safely by way of RCA and screw terminals.

INSTALLATION INSTRUCTIONS

Please choose a mounting place without any direct weather influences. Note that the amplifier generates heat so a well ventilated place is necessary.

Keep the wire connections as short as possible with sufficient length in order to minimize power loss and provide a higher audio output of the system.

For safety, route all power and speaker wiring using the existing wire channels.

To minimize damage to the cables, take care that they do not pass through sharp edged metal.

Lay all cables as far away as possible from the ignition cables, modules in the boot and under the dashboard, as these create interference.

Add a fuse to the (+) power cable in a distance of not more than 11 inches from the positive battery pole.

Keep the length of the power cable as short as possible. It is better to use power cables which are short and then longer speaker cables.

In order to reduce interference, please pay attention to the wiring instructions.

Defining a New Generation

Re Audio was founded by audio enthusiasts, for audio enthusiasts. We understand the uses (and often abuses) in autosound and engineer products for the real world. For years, our products have the finesse and sound quality to please the most discriminating audiophile, yet the durability to stand up to extreme abuses of SPL competition.

Here at RE, our passion drives us to design the products that you want to use, the products that offer many years of excitement and fun. Guaranteed!

REGISTRATION CARD

Customer Information

First name: _____

Last name: _____

Street No: _____

City: _____

State: _____ ZIP: _____

email: _____

Phone (optional): _____

Product Information

Model No: _____

Serial No: _____

Where did you buy it from?: _____

Comments: _____

Fill in the form and mail it to: Product Registration
PO BOX 2280
Bassett, CA 91746



Limited Warranty

RE Audio warrants all manufactured electronic products to be free from defects in material and workmanship for a period not to exceed ONE(1) YEAR from the date of purchase.

IMPORTANT WARRANTY NOTICE: RE Audio will only warrant and service products displaying valid RE Audio serial numbers. WARRANTY SERVICE WILL ONLY BE PERFORMED WHEN THE UNIT IS ACCOMPANIED BY A COPY OF THE ORIGINAL SALES RECEIPT FROM AN AUTHORIZED DEALER. All product returned to RE Audio for service MUST be accompanied by a Return Authorization Number, issued by RE Audio in advance of shipment. The Return Authorization Number must be clearly and conspicuously displayed on the shipping carton or RE Audio will refuse delivery.

For Return Authorization Numbers, first call your RE Audio dealer you purchased the products from. The dealer will help you to obtain Return Authorization Numbers.

This warranty extends only to the original purchaser and is not transferable. Defective equipment must be returned within the warranty period, freight prepaid, to the RE Audio Factory or an Authorized RE Audio Warranty Station.

This warranty covers only defects in materials and workmanship of manufactured electronic products (amplifiers). Incidents of misuse, abuse, neglect, or unauthorized modification will not be covered within the terms of this warranty.

RE Audio reserves the right to refuse warranty service under such conditions.

RE Audio WILL NOT BE RESPONSIBLE FOR ANY DAMAGES, WHETHER INCIDENTAL OR CONSEQUENTIAL, RELATED TO THE USE OF THIS OR ANY OTHER PRODUCT BEARING OR SOLD UNDER THE RE Audio BRAND NAME. USE THIS PRODUCT AT YOUR OWN RISK. IMPROPER USE OF THIS PRODUCT CAN RESULT IN PROPERTY DAMAGE, BODILY HARM, AND OR OTHER DAMAGE. RE Audio ASSUMES NO RESPONSIBILITY FOR YOUR HEALTH OR SAFETY.

CAUTION !

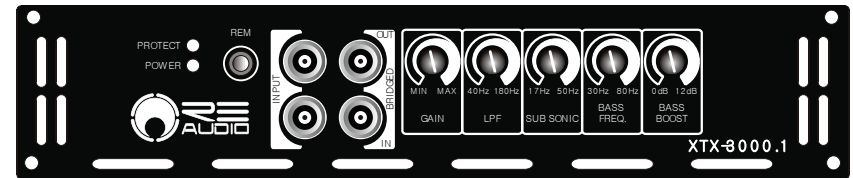
Jump starting your vehicle can cause large voltage spikes within your automobile's electrical system. To prevent damage to your stereo system, make sure the entire system is shut down until full battery charge has been reached and jumper cables have been removed from the battery.

We want you listening for a lifetime!

Used wisely, your new DTS series will provide a lifetime of fun and enjoyment. Since hearing damage from loud sound is often undetectable until it is too late, RE Audio and the Electronic Industry Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive loud sound.

FEATURES

▲ Mono block (XTX-3000.1) Amplifier



▲ Mono block (XTX-5000.1) Amplifier



- ▲ 1 Channel power amplifier
- ▲ Subsonic control
- ▲ Low level input
- ▲ MOSFET power supply
- ▲ Thermal protection
- ▲ Short circuit protection
- ▲ Remote Turn-on/Turn-off circuit
- ▲ LED Power and Protection Indicator

FUSE REPLACEMENT

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your dealer.

WARNING:

Use the specified amperage fuse. Use of a higher amperage fuse may cause serious damage.

PROTECTION CIRCUIT:

This amplifier is provided with a protection circuit which operates in the following cases:

when the unit is overheated.

when the speaker terminals are short circuited.

OPERATION

• GND (-)= GROUND CONNECTION

Connect the GND terminal to the chassis ground of your car and take care to ensure electrical and mechanical contact. In doing so, drill a hole in to the car chassis near the amplifier, then remove paint, dirt or any other substance from the ground point. After that, fasten the cable end with added ring terminal by using a screw. Ensure that the ground connection is as short as possible and that the cable diameter is sufficient (min 8 AWG). Route the ground cables from the radio and all other equipment, like equalizer, active crossover network or other amplifiers, to the same ground point.

• +12V=POWER SUPPLY

Connect the +12V terminal to the positive pole of the battery with a power cable and add a fuse to the power cable in a distance of not more than 11 INCH from the battery. The power cable's diameter should be at least 8 AWG for a length of 10 FT and 4 AWG for a length of 20 FT.

• REM (ON/OFF) REMOTE CONTROL

Connect the REM terminal to the automatic antenna connector of your car radio. Now when turning on and off your car radio, the amplifier automatically switches ON and OFF. A cable diameter of 16 AWG is sufficient.

• FUSE

The amplifier is equipped with a plug-in auto fuse protecting the set against faulty conditions. Do not use a fuse with a higher value and never bridge the fuse over, as this may lead to warranty being denied.

HOW TO PROCEED IN CASE OF FAULTS

• No Function:

The connection cable is not connected correctly (=terminal BATT/GND /REM). Ensure that all connections, mechanical contacts, and that the jacket have been removed. The fuse might be defective -pay attention to the correct value of a new fuse!

• No Sound:

Speaker cable or speaker plug are not connected correctly.

• No Sound /Red LED Protection Shines:

The plus and minus wires of the speaker cable shorted, thus create a short circuit. If you use a 2 Ohm speaker in stereo mode, turn the gain control to "min" until the operation is free of trouble.

• Poor Sound Quality (Distortions):

The speakers are overloaded, therefore turn down the volume level and check the volume control positions.

• No Stereo Sound And A Weak Bass:

Left and right speaker cables (+) and (-) are out of phase.

SPECIFICATION

▲ Mono block (XTX-5000.1) Amplifier

Supply Voltage	11~15V DC
Rms Watt @ 4 Ohm	1000Wx1
Rms Watt @ 2 Ohm	1700Wx1
Rms Watt @ 1 Ohm	2500Wx1
Frequency Response	17Hz~180Hz(-3dB)
Signal Noise Ratio	90dB
Input Impedance	20K Ohm
Input Sensitivity	100mV~6V
T.H.D.	<0.05%
Bass Freq.	30Hz-80Hz
Low Pass Freq.	40Hz-180Hz
Subsonic	17Hz-50Hz
Bass Boost	0~12dB

▲ Mono block (XTX-3000.1) Amplifier

Supply Voltage	11~15V DC
Rms Watt @ 4 Ohm	600Wx1
Rms Watt @ 2 Ohm	1000Wx1
Rms Watt @ 1 Ohm	1400Wx1
Frequency Response	17Hz~180Hz(-3dB)
Signal Noise Ratio	90dB
Input Impedance	20K Ohm
Input Sensitivity	100mV~6V
T.H.D.	<0.05%
Bass Freq.	30Hz-80Hz
Low Pass Freq.	40Hz-180Hz
Subsonic	17Hz-50Hz
Bass Boost	0~12dB

INTERFERENCE

All cables are sources of interference. The power cable and RCA audio cable are very prone to interference; the remote cables are less prone. There is often interference caused by the generator (popping), ignition (cracking) or other car electronic parts. Most of these problems can be eliminated by correct and careful cabling. In doing so, these are the following guidelines:

- Use only a screened audio cable for the wiring between "low levels in" of the amplifier and RCA or DIN output of the radio.
- Lay the signal, speaker and power cables separately with enough distance from one another and also from factory wiring. If not possible, you can lay the circuit and ground cable together with the serial cables. Audio and speaker cable should be as far away from these as possible. The REM cable to the automatic antenna output of the radio can be laid together with the signal cables.
- Avoid ground loops by laying the ground wiring of all components to a center point in a star-like way. You can find the best central point in measuring the voltage directly at the battery. Now compare this voltage value with the chosen ground point and the (+) terminal of the amplifier. If the measured voltage is only less different you've found the correct central. Otherwise you have to look for another point. You should measure with the ignition being switched on and additionally switched on other electronics (rear window heating and light).
- To reduce contact resistance and bad and loose contacts, please tin the cable ends or use multi core cable ends, spade terminals or others. Gold Plated spade terminals are free of corrosion and have the lowest contact resistance.
- If you do all these measures without any success. Use of a ground loop isolator may solve the problem.

PRECAUTIONS

- This unit is designed for negative ground 12V DC operation only.
- Avoid installing the unit where:
 - It would be subject to high temperature, such as from direct sunlight or hot air from the heater.
 - It would be exposed to rain or moisture.
 - It would be subject to dust or dirt.
- If your car is parked in direct sunlight and there is a considerable rise in temperature inside the car, allow the unit to cool off before operation.
- When installing the unit horizontally, be sure not to cover the heat sink fins with the floor carpet.
- If this unit is placed too close to the car radio, interference may occur. In this case, separate the amplifier from the car radio.
- This power amplifier employs a protection circuit to protect the transistors and speakers if the amplifier malfunctions. Do not attempt to test the protection circuits by covering the heat sink or connecting improper loads.
- Do not use the unit with an inadequate charging system as its optimum performance depends on a normal battery supply voltage.
- For safety reasons, keep the volume of your car audio system moderate so that you can still hear normal traffic sounds outside your car.

WIRING INSTRUCTIONS

• POWER CONNECTION

The battery terminal (+12V) must be connected directly to the positive terminal of the vehicle battery to provide an adequate voltage source and minimize noise. Connecting the battery terminal lead to any other point (such as the fuse block) will reduce the power output and may cause noise and distortion. Use only 8 AWG or thicker (smaller AWG) wire for this lead and connect it to the terminal of the battery after all other wiring is completed.

• GROUND CONNECTION

The ground terminal (GND) connection is also critical to the correct operation of the amplifier. Use a wire of the same gauge as the power connection (8 AWG or thicker) and connect it between the ground terminal (GND) of the amplifier and a metal part of the vehicle close to the mounting location. This wire should be as short as possible and any paint or rust at the grounding point should be scraped away to provide a clean metal surface to which the end of the ground wire can be screwed or bolted.

• REMOTE TURN-ON CONNECTION

The amplifier is turned on by applying +12V to the remote turn-on terminal (REM). The wire lead to this terminal should be connected to the "Auto-Antenna" lead from the car stereo which will provide the +12V only when the car stereo is turned on. If the car stereo does not provide an "Auto-Antenna" lead, the remote turn-on lead may be wired to an "Accessory "or "Radio "terminal in the car's fuse block. This will turn the amplifier on and off with the ignition key, regardless of whether the car stereo is on or off. The remote turn-on lead does not carry large currents. So #20 AWG wire may be used for this application.

• SPEAKER CONNECTIONS

Depending on the type and number of speakers used with the amplifier wired them to the speaker terminals as per the appropriate wiring diagram. For most applications 16 AWG wire should be used for the speaker leads but in no case thinner than 18 AWG. For leads in excess of 10 feet 14 AWG is recommended. When wiring the speakers, pay careful attention to the polarity of the terminals on the speakers and make sure they correspond to the polarity of the corresponding terminals on the amplifier. Do not ground any speaker leads to the chassis of the vehicle.

• INPUT CONNECTIONS

This amplifier features both high level and low-level input capability. Use either the low-level or high -level inputs, not both. If the car stereo does not provide low-level outputs, the amplifier may be connected via the speaker (high-level) outputs from the car stereo. Wire the speaker leads from the car stereo to the 5-pin adaptor harness as shown in the diagram (shielded cables is not required for this application) and plug the connector into the input connector on the amplifier. Carefully splice and insulate all wire connection.

Caution: Use either the low-level or the high-level inputs on the amplifier. Do not use both input levels at the same time.



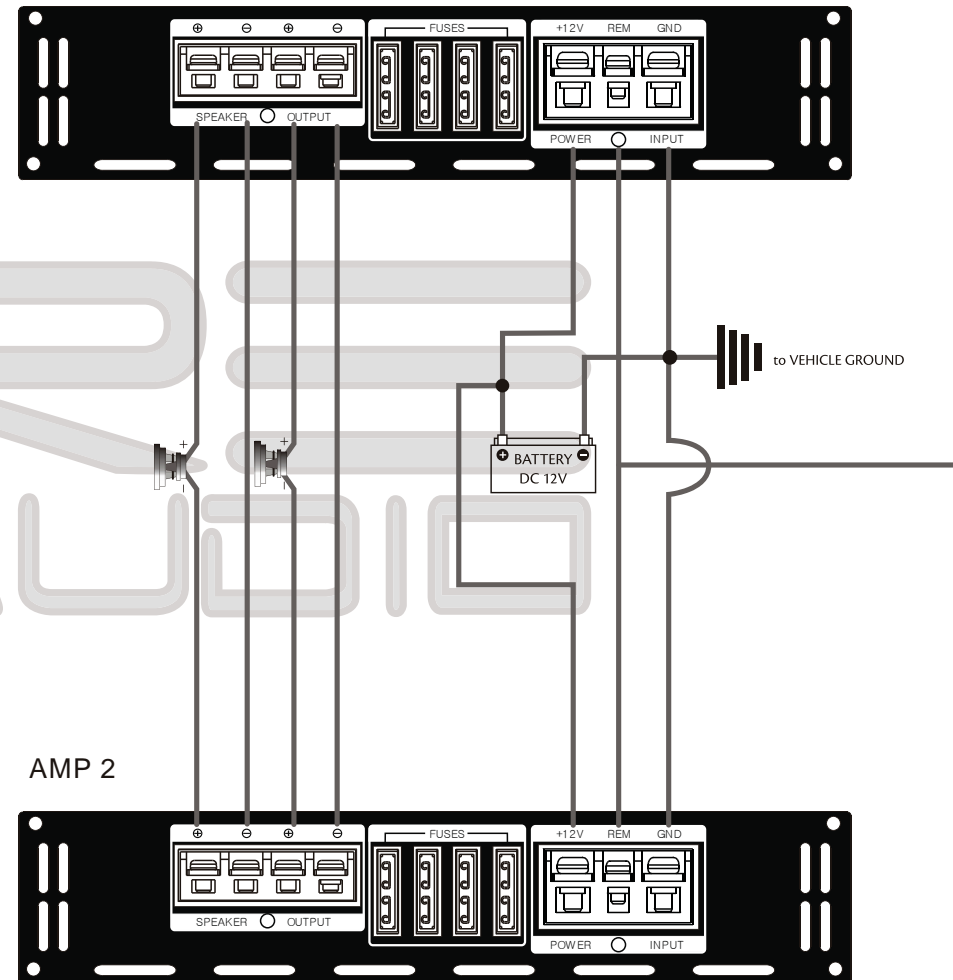
POWER CONNECTION LEADS

- Connect the +12V power input lead only after all other leads have been connected.
- Be sure to connect the ground wire of the unit securely to a metal part of the car. A loose connection may cause a malfunction of the amplifier.
- REM: The unit is turned on by applying +12 Volts to this terminal. This terminal does not draw heavy current like the Power Terminals so a thinner connecting wire is acceptable. Standard 18 GAUGE is fine and the standard color is blue. If the radio is equipped with a Power Antenna control wire, it can drive this terminal. If the Power Antenna wire is already in use, you can still splice into it. With this method, the unit will turn on automatically with the radio.
- Use the power supply lead with a fuse attached whose value is the same as original fuse.
- Place the fuse in the power supply lead as close as possible to the car battery.
- During a full power operation, maximum current will run through the system therefore, make sure that the leads to be connected to the +12V and GND terminals of the unit respectively must be larger than 10 AWG.

SPEAKERS CONNECTIONS AT BRIDGED

▲ Mono block (XTX-3000.1) Amplifier

AMP 1



AMP 2

SPEAKERS CONNECTIONS AT BRIDGED

▲ Mono block (XTX-3000.1) Amplifier

AMP 1



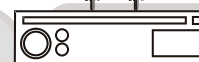
CAR STEREO

AMP 2



SPEAKERS CONNECTIONS

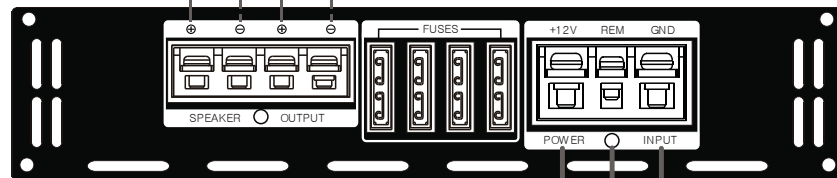
▲ Mono block (XTX-3000.1) Amplifier



CAR STEREO

MONO SPEAKER
2~8Ohm

MONO SPEAKER
2~8Ohm



to BATTERY ⊕

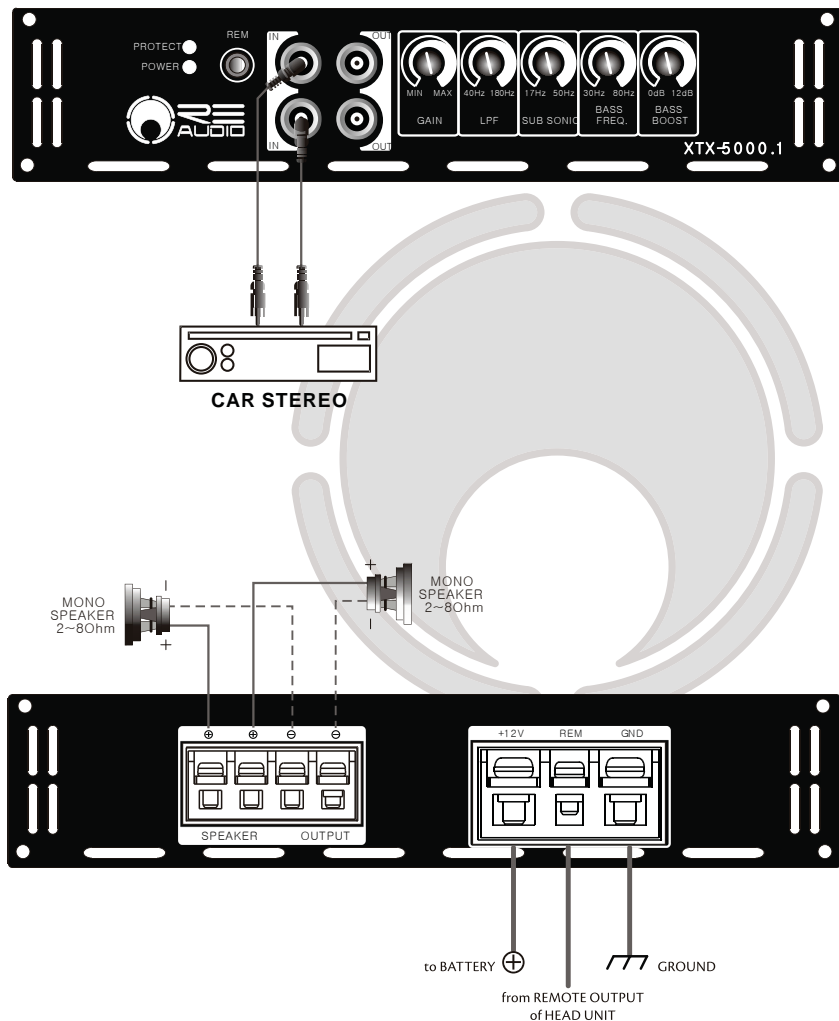
from REMOTE OUTPUT
of HEAD UNIT

GROUND



SPEAKERS CONNECTIONS

▲ Mono block (XTX-5000.1) Amplifier



OPERATION

After the amplifier has been installed and all connections have been made, carefully and securely, turn the radio on so that the amplifier is switched on automatically. After a short power-on period, the amplifier reaches its full performance.

Now turn up the volume slowly using the volume control of the radio. If there is no sound or only a distorted replay, switch off the radio immediately-the amplifier will also switch off automatically - and check if all connections have been made correctly.

- **POWER=LED POWER INDICATOR**

After the orderly connection of the three power terminals, the LED indicator shines green and goes out when off.

- **PROTECT=LED PROTECTION INDICATOR**

This set is equipped with an overload protection, immediately upon overloading (due to short circuit or much increased temperature) the overload protection is activated, and the red LED indicator is shining. Through this the amplifier is protected against damage. In case of the thermal protection a certain short cooling time must be allowed after which the amplifier automatically resumes operation.

- **LEVEL CONTROL**

The input level control allows the system to work well within a wide range of output level. Choose the adjustment in the way that you achieve a sound most clearly without any distortion. As a guideline the following procedure is recommended: If you use several amplifiers, the adjustment has to be made for each set separately. Tune the volume control of your car radio to 2/3 of the maximum volume. Now turn the gain control of the amplifier from "Min "to "Max "direction until you can hear distortions. Then turn the level control a little back to "Min ". The gain control adjustment is finished now.

- **Attention** If you use 2 Ohm speakers in stereo mode, turn the control to "Min "direction, until the operation is free of trouble.

MONO
AUDIO

