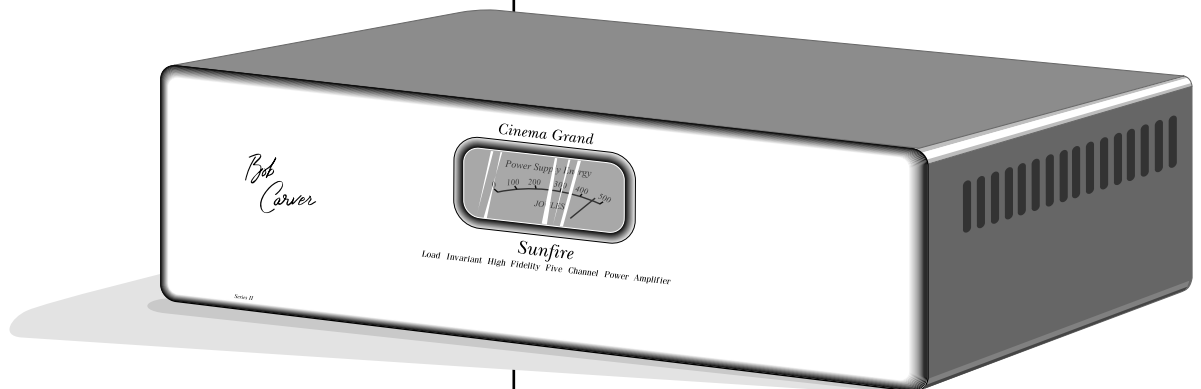
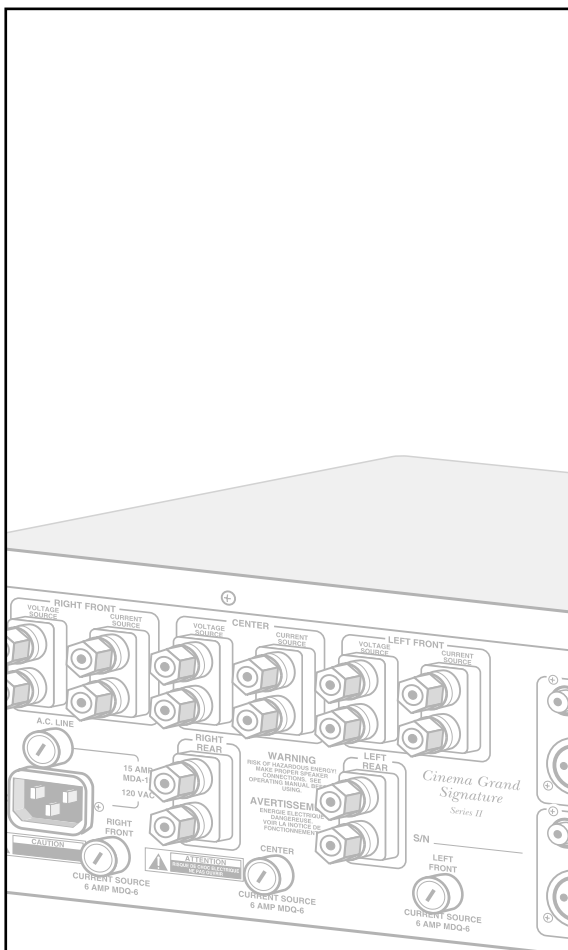
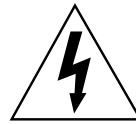
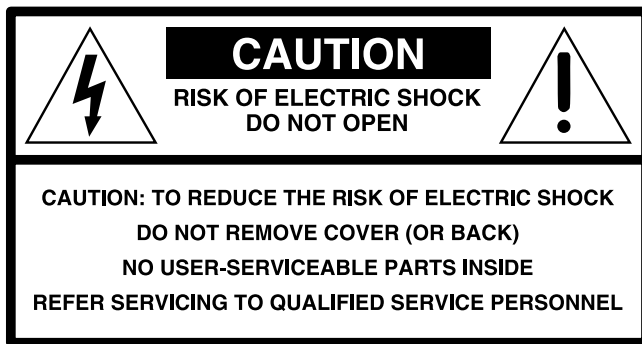

Bob Carver's
Sunfire
...from his mind & soul

Cinema Grand
Signature Edition
Five Channel Power Amplifier



Series II

User's Manual



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safety Instructions

1. Read Instructions — All the safety and operation instructions should be read before the Sunfire Component is operated.

2. Retain Instructions — The safety and operating instructions should be kept for future reference.

3. Heed Warnings — All warnings on the Component and in these operating instructions should be followed.

4. Follow Instructions — All operating and other instructions should be followed.

5. Water and Moisture — The Component should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. Ventilation — The Component should be situated so that its location or position does not interfere with its proper ventilation. For example, the Component should not be situated on a bed, sofa, rug, or similar surface that may block any ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through ventilation openings.

7. Heat — The Component should be situated away from heat sources such as radiators, or other devices which produce heat.

8. Power Sources — The Component should be connected to a power supply only of the type described in these operation instructions or as marked on the Component.

9. Power Cord Protection — Power-supply cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit the Component.

10. Cleaning — The Component should be cleaned only as recommended in this manual.

11. Non-use Periods — The power cord of the Component should be unplugged from the outlet when unused for a long period of time.

12. Object and Liquid Entry — Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the Component.

13. Damage Requiring Service — The Component should be serviced only by qualified service personnel when:

- A.** The power-supply cord or the plug has been damaged; or
- B.** Objects have fallen, or liquid has spilled into the Component; or
- C.** The Component has been exposed to rain; or
- D.** The Component does not appear to operate normally or exhibits a marked change in performance; or
- E.** The Component has been dropped, or its cabinet damaged.

14. Servicing — The user should not attempt to service the Component beyond those means described in this operating manual. All other servicing should be referred to qualified service personnel.

15. To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, un prise de courant ou une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans laisser aucune partie à découvert.

16. Grounding or Polarization — Precautions should be taken so that the grounding or polarization means of the Component is not defeated.

This apparatus does not exceed the Class A/ Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

ATTENTION — Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le règlement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.

WARNING – TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Contents

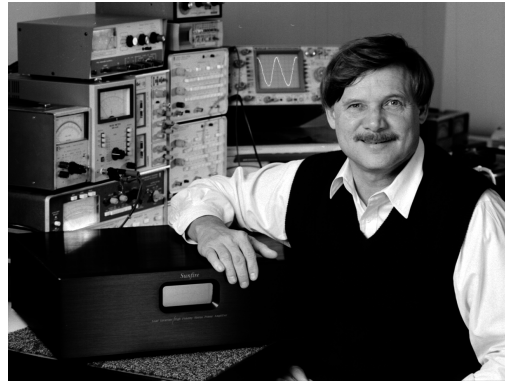
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www.sunfire.com

Introduction

Bob Carver's
Sunfire
...from his mind & soul



Bob Carver, Amplifier Designer, Physicist

Dear Friend:

Thank you for purchasing my *Sunfire Cinema Grand Signature Edition* five channel power amplifier. I hope you enjoy it and the music it makes as much as I have enjoyed creating it for you.

This magnificent amplifier represents my very latest thinking - and my best amplifier design ever I've spent over twenty years developing it, and cannot imagine how I could make it any better, or refine it any further. No matter what, its performance is at first, somewhat difficult to believe.

The *Cinema Grand Signature* can produce **425 watts rms per channel into 8 ohms**, and **850 watts rms per channel into 4 ohms**.

The big breakthrough feature of the *Cinema Grand Signature* is its uncanny tracking downconverter, which uses 18 Herculean Mosfets.

The circuit boards are heavy glass epoxy, double sided, with a Faraday shield on the back side. All resistors in the signal path are 1% tolerance, metal-film. Critical capacitors are film devices with high dielectric strength and ultra low absorption characteristics. An enormous *Cinema Grand Signature* power source built around a massive power transformer provides the ultimate muscle for limitless dynamics.

I could go on and on, but here's the best part: I've included two kinds of outputs on the **center, front left and front right**:

(1) a standard **voltage-source** (i.e., near zero impedance) output for all typical applications and
(2) a higher-impedance **current-source** output, which many prefer for electrostatic, planar magnetic, or ribbon speakers. Or you can biwire your system with the voltage source driving the woofer(s) and the current source driving the upper part of the system. In many cases this provides by far the best possible interface between the amplifier and the speaker system.

Whichever way you decide to hook up the *Sunfire Cinema Grand Signature*, it will create a multilayered soundstage that is deep, wide, three-dimensional, and utterly believable. The optional current-source output can coax forth a sensuous, delicately detailed musical voice long associated with low-powered classic tube amplifiers. (The current-source characteristic of vacuum tubes is the dominant factor in the soundstage delivery of classic tube amplifiers).

Bob Carver

Unpacking

Your Cinema Grand Amplifier should reach you in perfect condition. If you do notice any shipping damage, please contact your Sunfire Dealer immediately.

Gently lift out the unit and remove all the packing material and accessories. It is important to save all the packing materials and the box in case your amplifier ever needs to be moved or shipped for repair.

Make sure that you keep your sales receipt. It is the only way to establish the duration of your Limited Warranty and it may come in useful for insurance purposes.

Please make a note of your serial number located on the rear panel:

Serial #:

Purchased at:

Date: _____

Specifications

Power output

425 watts continuous, per channel, all channels driven into eight ohms from 20 Hz to 20 kHz with no more than 0.5% T.H.D.

Power at clipping, minimum:

850 watts per channel into four ohms.
1700 watts per channel into two ohms (time limited basis).

Hum and Noise

-103 dB, A-Weighted

Maximum output current

120 amperes peak to peak per channel

Maximum output voltage

58 Vrms

Output impedance Front Left and Front Right channels

Voltage source: Approx zero
Current source: Approx one ohm

Input impedance, RCA input

24k Ω

Input sensitivity for rated output

Unbalanced: 2.0 Vrms
Balanced: 1.0 Vrms

Input impedance, XLR input

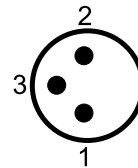
24k Ω , each leg balanced to ground

Female XLR

Pin 1 is ground

Pin 2 is negative (cold)

Pin 3 is positive (hot)



Dimensions

19.0 inches wide
6.5 inches high (including feet)
16.75 inches deep (including connectors)

Weight

45 lbs

Finish

Brushed aluminum and black anodize

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All rights reserved. Sunfire Corporation reserves the right to improve its products at any time. Therefore, specifications are subject to change without notice.
Manual part number : 913-034-00 Rev A

Installation

Read and follow all safety instructions shown on pages 2 and 3.

Observe the following precautions when choosing a location for your Cinema Grand Amplifier:

- Protect it from prolonged exposure to direct sunlight and other direct sources of heat, such as heating vents and radiators.
- Do not expose the unit to rain or moisture. If fluid or a foreign object should enter the unit, immediately turn off the power and contact your Sunfire Dealer.
- Avoid excessive exposure to extreme cold or dust.
- Do not place heavy objects on top of the unit.
- Allow adequate ventilation around the amplifier; do not cover the ventilation slots.

AC Power Considerations

Ensure that the unit is plugged into an outlet capable of supplying the correct voltage specified for your model. The outlet should be capable of supplying 15 amps for the 120V model, 8 amps for the 230V model.

Care

If you need to clean the front surface, first turn off the power and then use a slightly dampened cloth, rubbing with the grain. Be careful not to scratch the display window.

Connection Tips

Before setting up your new system, please consider the following :

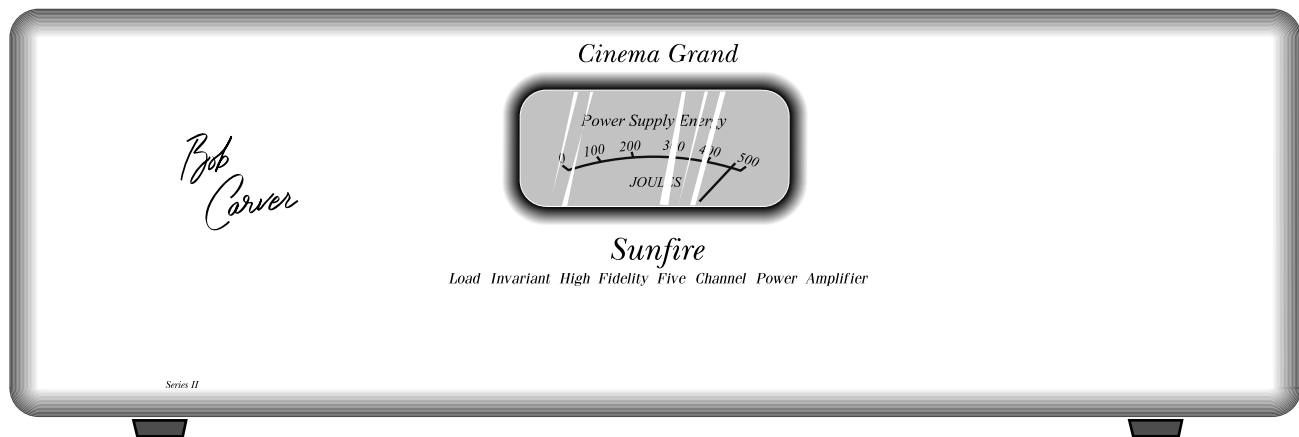
- Always make sure that your components are all turned OFF before making or changing connections.
- Make sure that the power cords of all your components are attached to the same outlet or at least to the same circuit. This will reduce the possibility of a ground loop in the system.



Make sure that the total current draw does not exceed the current rating of the outlet.

- Use the XLR inputs if your preamplifier has XLR outputs. These balanced connections provide superior noise rejection.
- Whenever possible, keep the power cords away from the signal cables or speaker wires to prevent any hum or interference being heard in the speakers.
- Choose reliable hookup cables, also called patch cords or RCA cables. They should be fully shielded and as short as possible for the job.
- Some patch cords can be a very tight fit and there is usually a preferred method of getting them off, some have to be removed with a twisting action. Be gentle or you may damage the jacks of the amplifier or your other components.
- Some special patch cords can only be hooked up in one direction, these are usually marked with arrows.
- It is usual for the right patch cord plugs to be red and the left connections to be white, grey or black. Video connections are usually yellow.

Front Panel Features



Overview

Your Cinema Grand Amplifier has five channels of power amplification combined in one chassis for the purpose of reproducing music or video soundtracks. It accepts line level signals from a controlling preamplifier and amplifies them to a higher level, suitable for driving powerful stereo and home theater speakers.

Meter

The front panel meter indicates the total energy available from the tracking downconverter power supply. It is calibrated in Joules and will normally indicate approximately 480 Joules. Note that the needle does not move under normal use.

Crystal Base

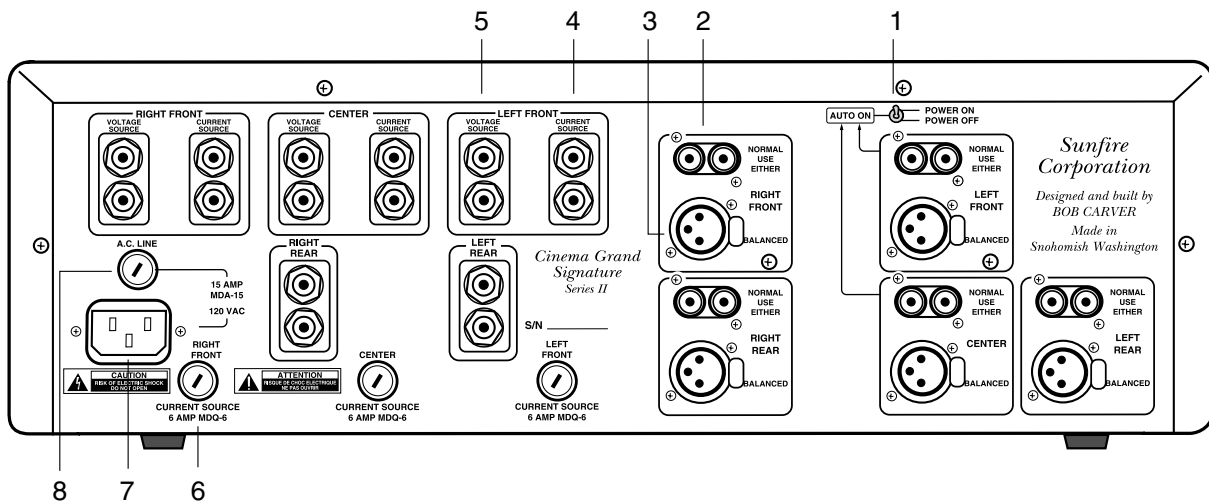
The glass base is intended to ensure proper airflow under the amplifier. A good choice for the amp location is centered between the loudspeakers on the floor, using the glass base to prevent the carpet from restricting the airflow. If you choose to place the unit on a shelf or other hard surface, the base will isolate the amp from vibration and will help make an attractive installation.

Illumination

The meter is illuminated by an incandescent lamp operating at a very warm color temperature. I have been influenced by the scale lighting of classic electronic equipment from the 1950's, with their warm dim glow, usually with a "headlight effect" from the lamp. I incorporated that historical look and feel into this meter lighting. It is decidedly **not** "evenly back-lit" with a cool to cold color temperature. I hope you like my unusual meter lighting treatment.

A switch has been provided on the underside of the unit toward the front. This switch gives you the ability to dim the meter lamp to reduce distractions in a home theater environment. I like the brighter of the two settings, as it illuminates the meter nicely and matches my other Sunfire equipment. Feel free to choose the setting that suits you.

Rear Panel Features



1. AUTO/ON/OFF Switch

Your Cinema Grand Amplifier is designed with an automatic on/off circuit.

- In the AUTO-ON position, the amplifier will automatically turn on if an audio signal is present at the left front or center inputs. The amplifier will automatically turn off after approximately 30 minutes absence of an audio signal.
- In the POWER ON position, the amplifier is always on.
- In the POWER OFF position, the amplifier is always off.

2. RCA Inputs

Your Cinema Grand Amplifier has three sets of inputs for each of the five channels. Two are unbalanced RCA inputs and one is a balanced XLR type.

The two RCA inputs for each channel are joined together internally and either one can be connected to the corresponding output of your preamplifier. The other can be used as a daisy-chaining output, sending the preamplifier output signal to another channel or to another amplifier.

3. XLR Inputs

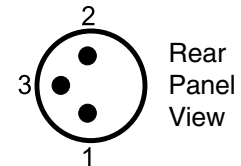
If your preamplifier has XLR outputs, connect them to the XLR inputs. Use them instead of the RCA inputs because balanced connections offer superior noise rejection.

The female XLR inputs are wired as follows:

Pin 1 is ground

Pin 2 is negative (cold)

Pin 3 is positive (hot)



Balanced connections pass the input signal along two conductors. If there is any external noise and interference passing into the audio lines, both conductors will receive the same amount of noise. This noise is then rejected in the balanced input stage of the Cinema Grand Amplifier.

4. Current Source Outputs and 5. Voltage Source Outputs

The front left, front center and front right channels have two sets of outputs. The voltage source output has a source impedance of approximately zero ohms. The current source has a source impedance of approximately one ohm. The left rear and right rear channels have voltage source outputs only.

The top post of each pair is the positive output, and connects to the positive (red) post of your speaker. The bottom post of each pair is the negative, and connects to the negative (black) post of your speaker. The posts can accept bare wire, spade terminals, and dual or single banana connectors.

According to your musical taste, you may select the current source for electrostatic, planar magnetic or ribbon speakers. Select the voltage source for subwoofers. For cone based systems, use either. For a biwired system, use the current source for midrange and treble drivers and use the voltage source for the subwoofer(s). These are suggestions only. By all means, please feel free to experiment with other wiring options.

NOTE: The current source output is a voltage source modified to yield a current source impedance of one ohm. This corresponds approximately to a vacuum tube amplifier output impedance and constitutes the dominant factor in the soundstage delivery of classic vacuum tube power amplifiers.

6. Current Source Fuses

Each current source output has an in-line fuse to protect your speakers. If one ever opens, there will be no output to that speaker.

7. IEC connector

The amplifier comes with a detachable Linecord which attaches here. Make sure it is firmly pushed in place. Connect the other end to an AC outlet which is properly configured for the type of plug and has the correct voltage for your model.

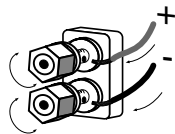
8. Line fuse

If this fuse fails, replace it with the exact same type and current rating.

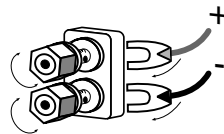


Note: Always unplug the power cord from your AC outlet before removing the fuse.

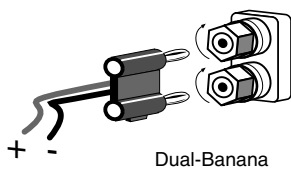
With a flat ended screwdriver, push the fuse carrier in slightly and turn it counter-clockwise to release.



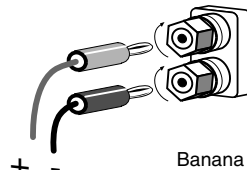
Bare Wire



Spade



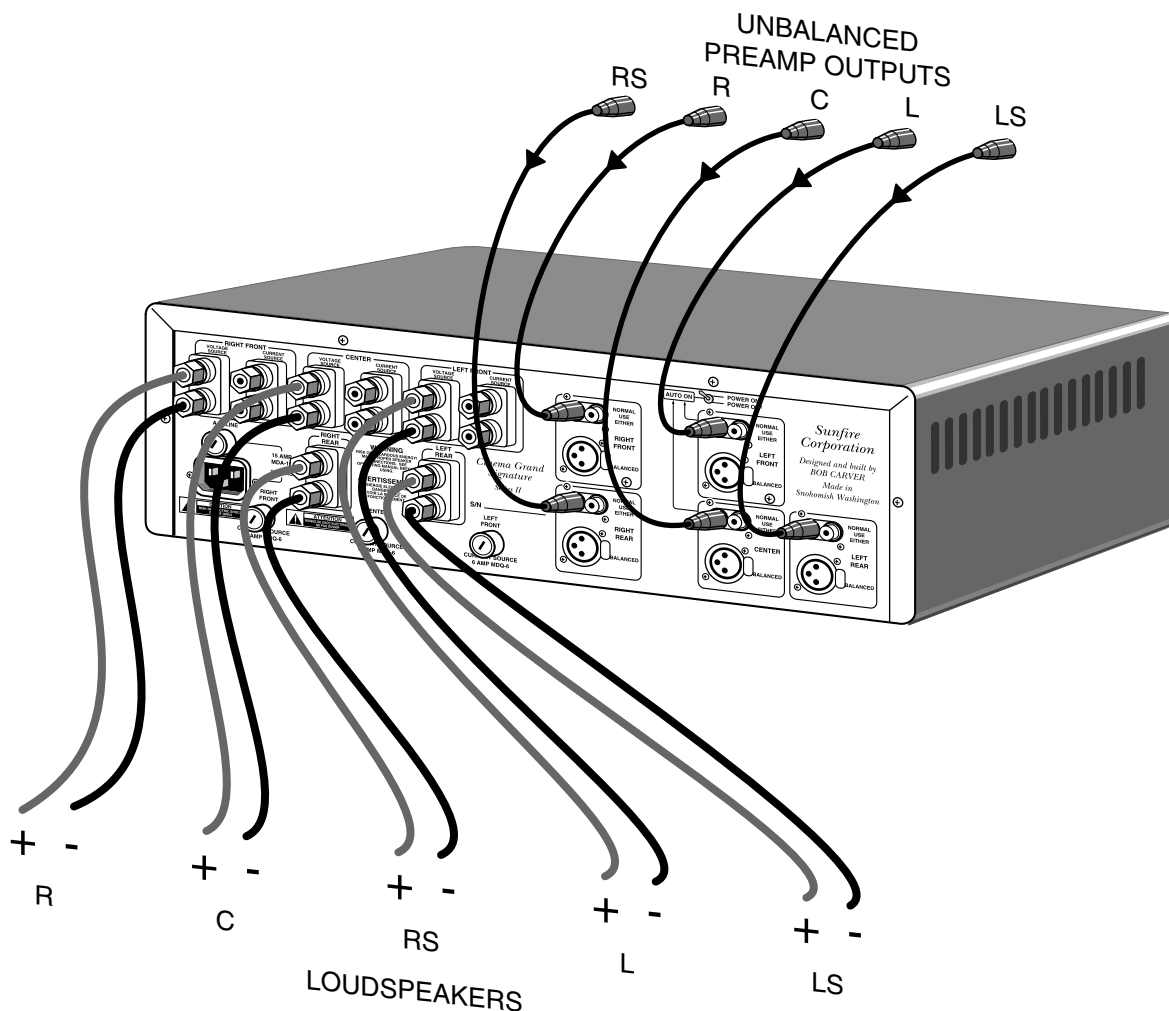
Dual-Banana



Banana

System Configurations

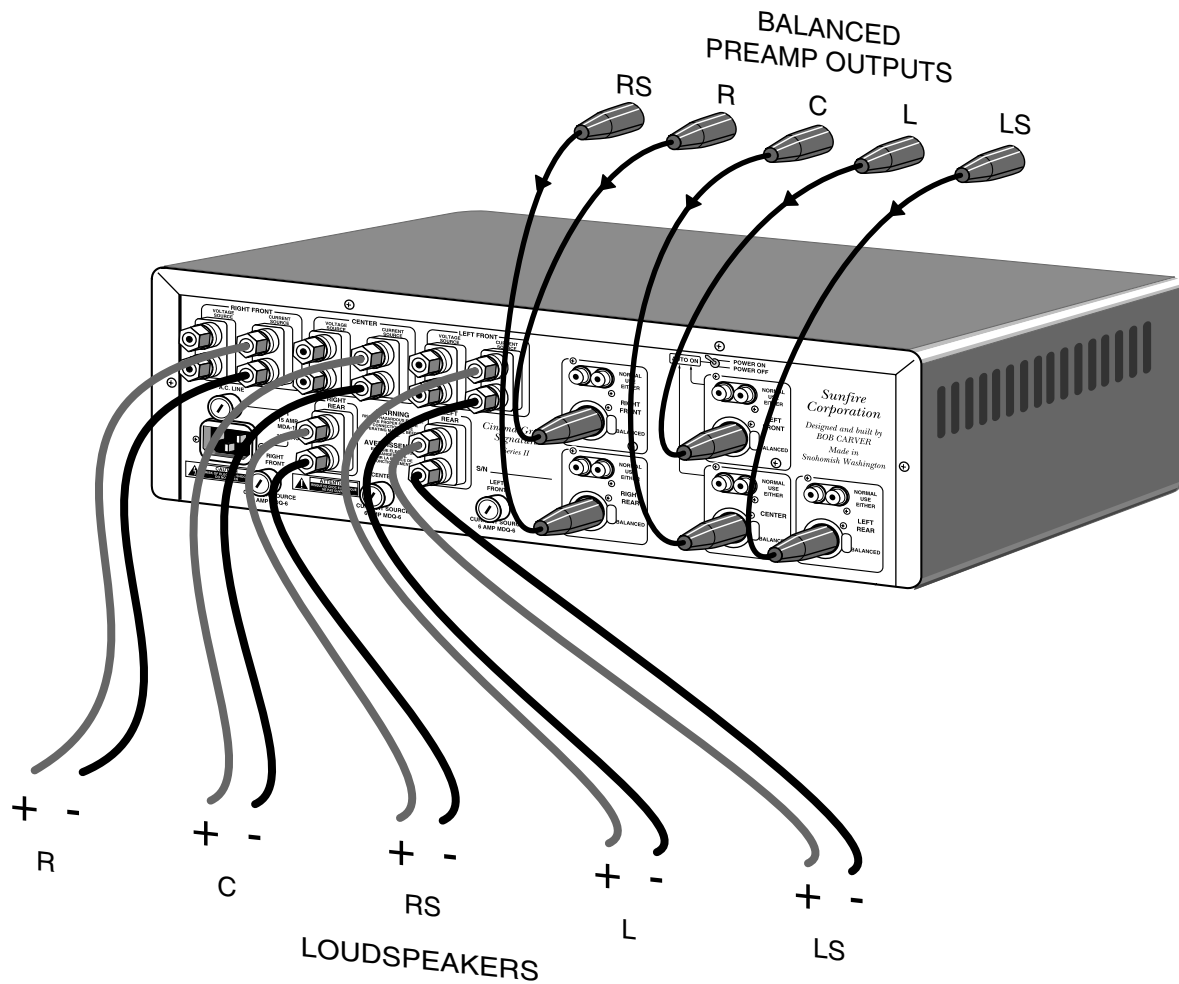
The following pages show some typical connections that you might make in your installation. They show how the inputs and outputs of the Cinema Grand Amplifier are connected to your preamplifier and speakers.



If your preamplifier has RCA outputs, it can be connected to the amplifier inputs as shown. This diagram also shows how the voltage source outputs connect to the input posts of your front speakers. (The current source can be used instead, as shown on the next page).

R = Right Channel
 C = Center Channel,
 L = Left Channel
 RS = Right Surround (rear) Channel
 LS = Left Surround (rear) Channel

Unbalanced RCA inputs and voltage source output connections

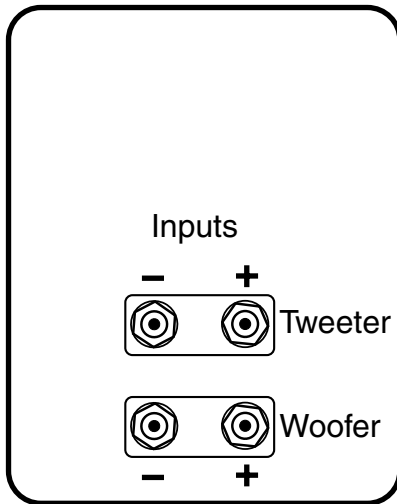


If your preamplifier has XLR outputs, it can be connected to the XLR inputs as shown. This diagram also shows the current source output connections to the front speaker inputs. (The voltage source outputs can be used instead, as shown on the previous page).

Balanced XLR inputs and current source output connections

Biamping

If your speakers can be biamped, the Cinema Grand Amplifier can be configured to provide a very powerful stereo system.



A speaker which can be biamped or biwired will have two sets of binding posts. Sometimes these posts are joined with shorting links for normal operation.



Make sure that any links are removed when you want to biamp or biwire the speakers.

Each speaker can be driven by two amplifier channels, one to drive the woofer and one for the upper range. You will need to use four amplifier channels to run two speakers.

If you use the Cinema Grand Amplifier for biamping, then a total of three speakers can be connected. You will need an extra two channel amplifier if you want to run the rear speakers in a home theater system.

Output connections

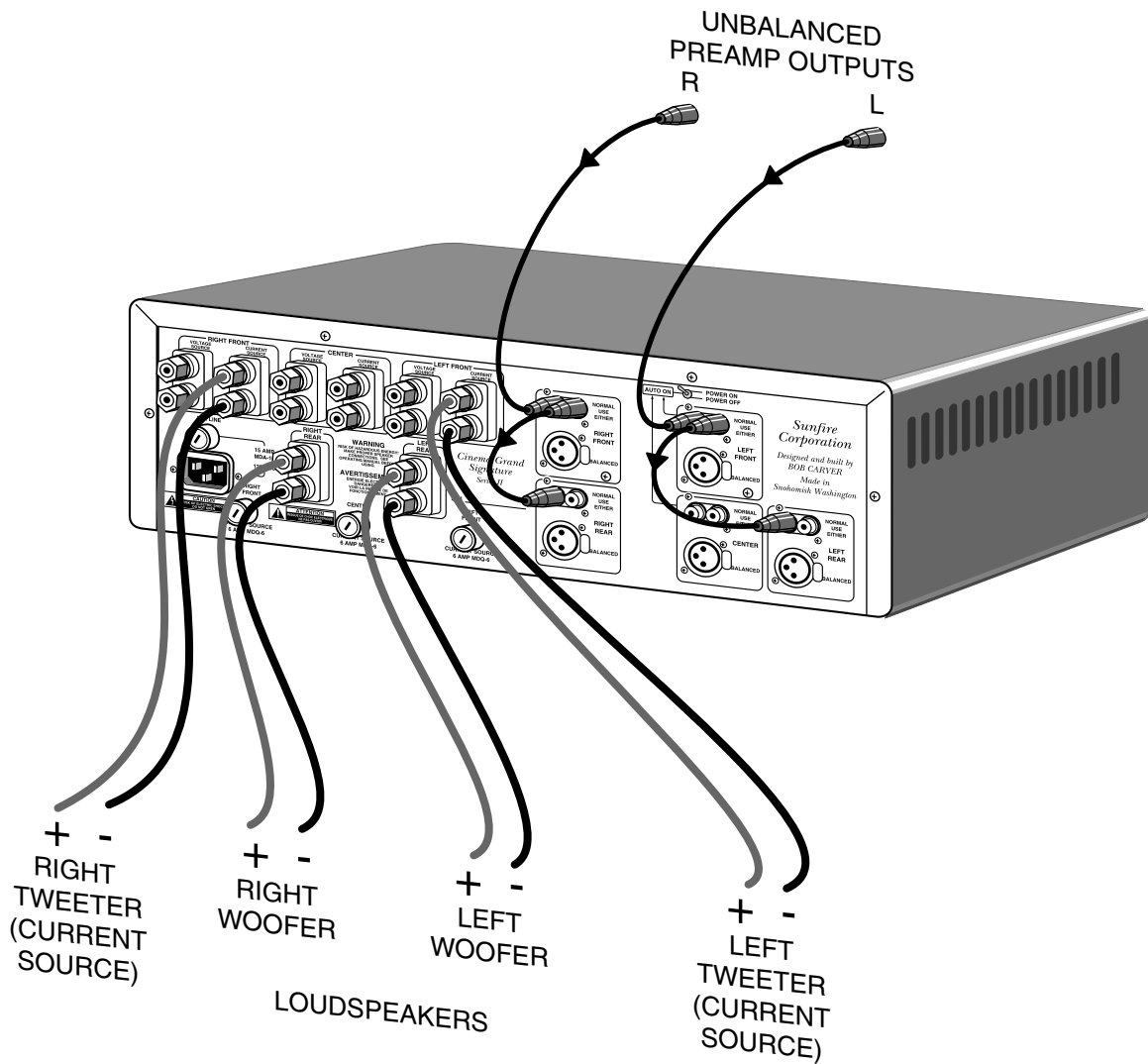
- Connect the amplifier's right rear output to the right speaker's woofer input terminals and connect the amplifier's right front **current source** output to the right speaker's upper range input terminals. If you prefer, you could use the right front **voltage source** instead.
- Connect the amplifier's left rear output to the left speaker's woofer input terminals and connect the amplifier's left front **current source** output to the left speaker's upper range input terminals. If you prefer, you could use the left front **voltage source** instead.

Input connections

Each amplifier channel has two RCA inputs which are connected together internally.

- Connect the preamp's stereo output to the front channel RCA jacks. Then install short interconnects from the other unused front RCA jacks across to the rear channel RCA jacks. In this way, the front and rear amplifier channels are fed with the same signal from your preamp.
- Note: you cannot use balanced cables in, with RCA out, or RCA in with balanced out.

If you have an external active crossover, then you can greatly increase the efficiency of your system. The crossover will split the preamp signal into two frequency ranges. The rear channel amplifier will receive the low frequency range, and the front channel amplifier will receive the higher range. This is efficient because each channel only amplifies signals within the frequency range of the speaker element they are driving. Little power is wasted. Make sure that you set the crossover point of your active crossover to match the crossover point of your speakers.



Note: The center channel can be used to drive a third speaker, or left unconnected.

Biamping connections

Biwiring

If your speakers can be biwired or biamped, they will have completely separate input terminals for the woofer section and the upper range. See the speaker diagram and discussion on page 12.



Make sure that any links between the woofer and upper range posts are removed from the speakers when you want to biamp or biwire them. Consult your speaker owner's manual for details.

The center, front left and front right channels each have two pairs of outputs which can be used to biwire your speakers. The idea is to use the voltage source to drive the woofer, and the current source to drive the upper range. This will offer improved performance and still allow you to connect five speakers for your home theater system.

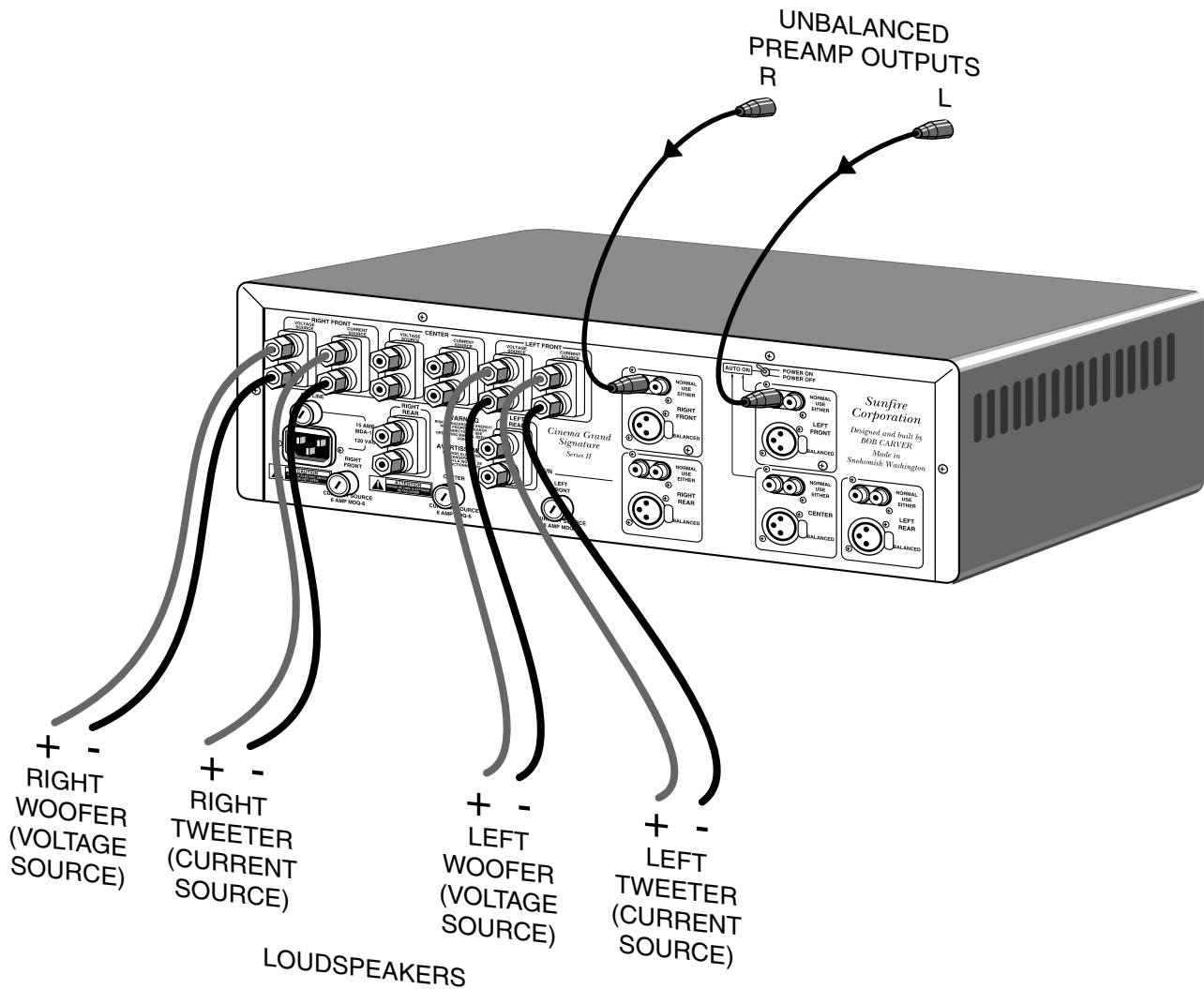
Page 15 shows the input and output connections for biwiring a left front speaker and a right front speaker.

Output connections

- Connect the amplifier's right front **voltage source** output to the right speaker's woofer input terminals and connect the amplifier's right front **current source** output to the right speaker's upper range input terminals.
- Connect the amplifier's left front **voltage source** output to the left speaker's woofer input terminals and connect the amplifier's left front **current source** output to the left speaker's upper range input terminals.
- If your center speaker can be biamped, then connect it to the center channel outputs in the same way as above. Otherwise, connect it as shown on pages 10 and 11.
- Connect the rear speakers as shown on pages 10 and 11.

Input connections

- Connect your preamplifier's outputs to the amplifier's corresponding input jacks. If your preamplifier has XLR outputs, use these wherever possible.



Note: The center and rear inputs and outputs have been omitted for drawing clarity. If used, they can be connected as shown on pages 10 and 11.

Biwiring connections

Speaker connections

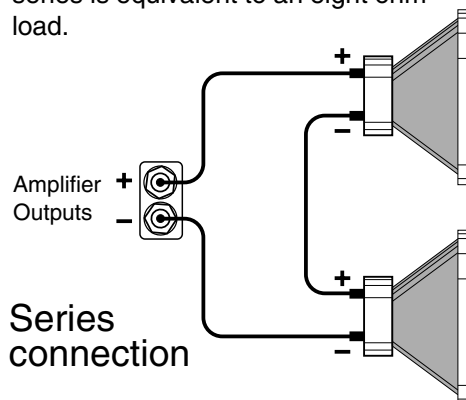
If your speakers cannot be biwired, the normal configuration is to have one speaker connected per channel. The connection of more than one per channel will tend to degrade the speaker's frequency response. For the best results use one speaker per channel.

If you want to connect more than one speaker per channel, there are two main ways: series or parallel.

Series

For an example, if you want to series-connect two speakers to the front right channel of the amplifier:

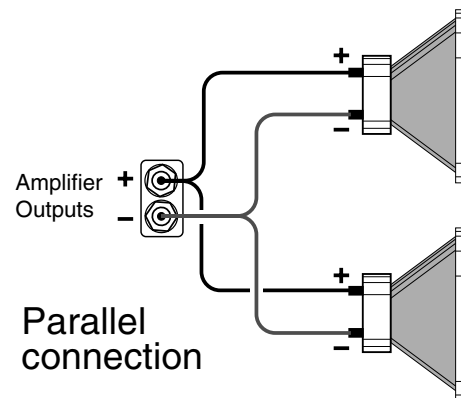
- The positive output terminal of the front right channel connects to the positive input of the first speaker.
- The negative input of the first speaker connects to the positive input of the second speaker.
- The negative input of the second speaker connects to the negative output terminal of the front right channel.
- The total impedance of speakers in series is found by adding their impedances together.
- Series connections are easier on the amplifier than parallel connections, because the total impedance is higher than driving a single speaker. For example, two four ohm speakers in series is equivalent to an eight ohm load.



Parallel

For an example, if you want to parallel-connect two speakers to the front right channel of the amplifier:

- The positive output terminal of the front right channel connects to the positive input of the first speaker and to the positive of the second speaker.
- The negative output terminal of the front right channel connects to the negative input of the first speaker and to the negative of the second speaker.
- The total impedance of equal speakers in parallel is found by dividing the impedance of one speaker by the number of speakers. For example, two eight ohm speakers in parallel is a four ohm load (eight ohms divided by two), four eight ohm speakers in parallel is a two ohm load (eight ohms divided by four).
- Parallel connections are harder on the amplifier than series connections as the total impedance is lower compared to driving a single speaker, so the amplifier has to produce more current.
- You must make sure that the lower impedance does not cause the amplifier to overheat, shut down, blow the line fuse, or pop your circuit breaker. If this happens, you should reduce the number of speakers wired in parallel, or rewire them in series.



Troubleshooting

The Sunfire Cinema Grand Amplifier is expertly designed and built to provide years of trouble-free performance. Most problems that occur can usually be solved by checking your setup or making sure that the components connected to the amplifier are on and fully operational.

The following information will help you deal with common setup problems you may experience during normal use of your unit. If the problems still persist, please contact your Sunfire Dealer for assistance.

No sound from one or more speakers

- Speaker cables may have come undone. Turn off your system and check the cables
- The preamplifier volume level is low for the channels concerned. Recheck the preamplifier calibration procedure.
- The preamplifier mute switch is on
- The correct preamplifier surround mode is not selected
- A tape or external processor loop may be engaged on the preamp.

Current source outputs not working

- Check the current source fuse. If it blows often, it is acceptable to replace with a slo-blo 7 ampere fuse.

The amplifier shuts down often or the line fuse blows often

- Check that the positive and negative speaker wires are not shorted.
- Make sure that no speakers are shorted internally. An ohm-meter should read 2 or more ohms for most speakers.
- If you have connected speakers in parallel, the overall impedance may be too low. It is recommended that you rearrange the speakers in series to increase the overall impedance, thus taking some of the load off the amplifier.

- Make sure that the amplifier has good ventilation and is not overheating. Use the crystal base to allow good airflow underneath. If the amplifier is in a closed rack, open up the rear panel or use a quiet fan for improved ventilation.

Hum in your speakers

This may be due to a system ground loop, rather than a problem with the amplifier. Take the following steps to isolate the cause of any hum.

Remember to turn off all components in your system before disconnecting or connecting any cables.

- If your preamplifier has XLR balanced outputs, use them because they offer greater immunity to noise fields.
- Try to have all of your equipment on the same electrical outlet or circuit. Group all the low power components (preamp, CD player, DVD etc.) on a single outlet or power strip. This is provided that the overall current draw from your equipment does not exceed the rating of the outlet or breaker.
- Disconnect all cables which come from outside of the room, such as cable TV, satellite TV, or roof top antennas. If the hum is caused by the cable TV line, then you will need a "ground loop isolator." This is an inexpensive device fitted in line with the coaxial cable feed, see your TV/video dealer.
- As a test, disconnect any other component which has a grounded power cord.



NOTE: Never remove the ground pin from any power cords. This is very dangerous.

- If the hum persists, disconnect all the source components one at a time from the back of the preamp, until you identify the problem.

- Try moving the speaker cables away from any power cords. Try just one speaker, connecting it to different channels and see if an amplifier channel is bad.

Other causes of noise

- Speaker noise may also be caused by interference or noise on your AC line. Make sure there are no large appliances sharing the line, or halogen lamps or lamps with dimmer controls.
- Try connecting your system to another AC socket on a separate line.
- If the hum is heard from within the amplifier and not through the speakers, this may also be caused by interference on the AC line. Internal hum can be made worse by a shelf or cabinet resonating, so try moving the amplifier to another location.
- Try moving your preamplifier further away from your amplifier. Sensitive preamp circuits may pick up hum from the amplifier transformer's magnetic field.
- Try moving your components further away from the TV, especially if you ever notice the screen has changed color in the area closest to the component.
- If you are still having a problem, remember that Sunfire's dealers and technical support staff will assist you. Make a list of the things you have tried.

Poor bass performance

- Make sure that your preamp does not have the bass level turned down.
- Many surround preamplifiers have controls which can direct all the bass to subwoofers, or let your main speakers play the full range. Make sure that the preamplifier has been correctly set. If you are not using a subwoofer, set the speaker options to "Large."

- Check that the speaker wires have been connected correctly: Make sure that the positive of each speaker connects to a positive output of the amplifier, and the negative of each speaker connects to a negative output. If one speaker is wired incorrectly, then it will be "out of phase" with the others, resulting in poor bass performance.
- If you have connected the amplifier using the XLR inputs, make sure that the XLR cables are wired correctly. If one has the hot and cold reversed, then this will also cause a speaker to be out of phase.

No high frequency output

- If you are biamping or biwiring, make sure that the **current source** fuses have not blown.

Limited Warranty

Sunfire Corporation is proud of its products which have been built with care using advanced technology and premium component parts. Your unit has been crafted to perform properly for many years. Sunfire Corporation offers the following warranty to you, the owner of a new Sunfire product:

The Sunfire Corporation Warranty for the Cinema Grand Amplifier is in effect for FIVE years from the date of original retail purchase. The Sunfire Corporation Warranty covers defects in materials and workmanship. However, the following are excluded: a) damage caused during shipment, b) damage caused by accident, misuse, abuse of operation contrary to the instructions specified in the Sunfire Corporation user's manual, c) units where the serial number has been defaced, modified or removed, d) damage resulting from modification or attempted repair by any person other than authorized by Sunfire Corporation.

The Sunfire Corporation Warranty extends to the original owner or subsequent owner(s) during the five year warranty period so long as the original dated purchase receipt is presented whenever warranty service is required.

All implied warranties, including warranties or merchantability and fitness for particular purposes, are limited in duration to the five year length of this warranty, unless otherwise provided by state law.

Sunfire Corporation's liability is limited to the repair or replacement, at our option, of any defective product and shall not in any event include property or any other incidental or consequential damages which may result from the failure of this product.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. We suggest that you attach your purchase receipt to this Warranty and keep these in a safe place. Thank you for your choice of a Sunfire Corporation product.

Service Assistance

We suggest that you read the Limited Warranty completely to fully understand your Warranty/Service coverage.

If your Sunfire Corporation product ever requires service, write or call to:

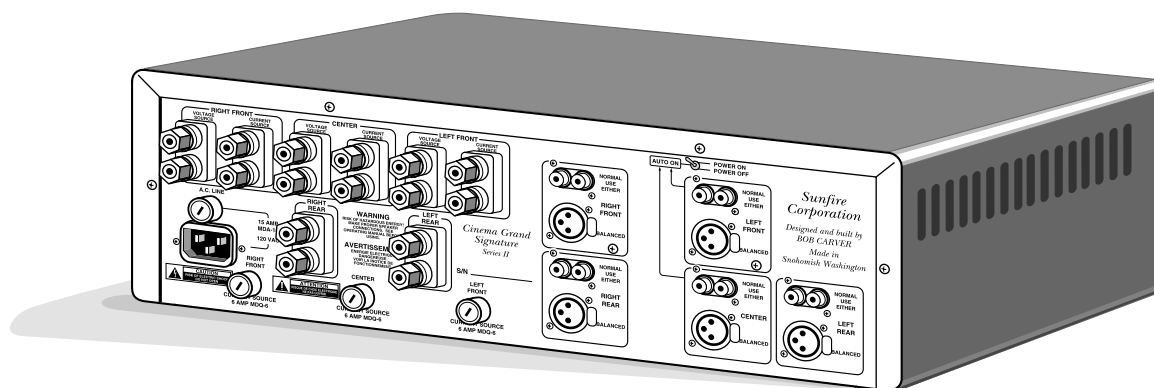
Sunfire Corporation
Technical Services Department
P.O.Box 1589,
Snohomish, WA 98291
Tel (425) 335-4748
Fax (425) 335-4746

You will be directed to an authorized Sunfire Corporation Service Station or receive instructions to ship the unit to the factory. Please save the original shipping carton and packing materials in case shipping is required. Please do not ship Parcel Post.

NOTE: Before sending in your unit for repair, you must call Sunfire for return authorization.

Include a complete description of the problem, indicating how you have it connected, the associated equipment in your system and a copy of your purchase receipt. Initial shipping costs are not paid by Sunfire Corporation; return ground shipping costs will be prepaid if repairs were covered by the scope of this warranty.

Bob Carver's
Sunfire
...from his mind & soul



Cinema Grand
Signature Edition
Five Channel Power Amplifier
Series II

Sunfire Corporation
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