

Cinénova Grande



5 & 7-Channel Amplifiers Users' Guide

"Potent combination of speed, grace and power"

September 2005 HomeTheater Magazine

"Measured all channels driven, 328.3 WRMS into 8 ohm"

September 2005 HomeTheater Magazine

"This amp brings new meaning to the phrase 'gentle giant'".

Home Theater Magazine, June 2000.



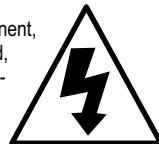
The Sound That Will Move You.

Important Safety Instructions

- 1) Read these instructions in their entirety.
- 2) Store this manual and packaging in a safe place.
- 3) Heed all warnings.
- 4) Follow instructions (do not take short cuts).
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments & accessories specified by the manufacturer.
- 12) Use only with a cart, stand or table that can support the product weight, **NOT RACK MOUNTABLE**. Use caution when moving or positioning your rack or cart so that it will not tip over, which may cause serious injury to you or your products.
- 13) Unplug this apparatus during lightning storm or when unused for long period of time.
- 14) Refer all servicing to qualified service personal. Servicing is required when the apparatus has been damaged in any way such as; power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



This triangle, which appears on your component, alerts you to the presence of uninsulated, dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This triangle, which appears on your component, alerts you to important operating and maintenance instructions in this accompanying literature.

Safety First

This documentation contains general safety, installation, and operating instructions for the 5-Channel and 7-Channel Power Amplifiers. It is important to read this users' guide before attempting to use these products. Pay particular attention to safety instructions.

The following symbols are used in this document:



Appears on the component to indicate the presence of uninsulated, dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.

CAUTION

Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in injury or death.

WARNING

Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in damage to or destruction of part or all of the product.

Note:

Calls attention to information that is essential to highlight.

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Unpacking

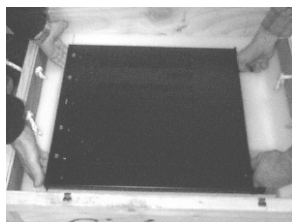
Cinénova Grande amplifiers are extremely heavy (100 Lbs +). They are shipped in a wooden crates for maximum protection and on occasion, the contents of the crate may shift during shipping. We urge you to follow instructions when unpacking the amplifier. The following procedure is designed to help you through the ABC of safe unpacking and connecting your new amplifier. In the event you have any question, please contact our toll free number at 1-800-576-7944 and ask for tech support.

1) OPENING THE CRATE



To open the crate, release the two latches holding the crate door. Slowly lift the crate door and inspect the content of the crate (padding, foam, ETC...).

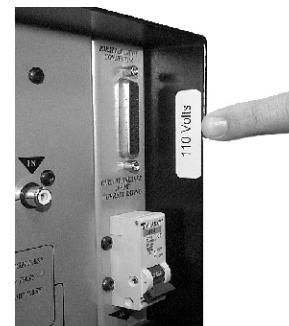
2) REMOVING THE AMPLIFIER



This requires two people: one to lift the amp from its back and another to lift the amp from its front simultaneously. Lift the amplifier slowly in an upward motion using

the front handles and the cover. This will ensure that you do not scratch the housing, or much worse: drop the amplifier.

3) CONFIRM VOLTS SETTING



Confirm the voltage setting of the amplifier. It must match the voltage in your home. The amp is set by factory to either 110 V or 220V. Check sticker to confirm setting.

4) RESET CIRCUIT BREAKER



This amp is equipped with a 20 ampere circuit breaker. The circuit breaker should be set to the OFF position before powering. Plug the AC power cord into the amp and the wall, then reset the circuit breaker to ON position.

5) TURN POWER SWITCH ON



Turn the power switch ON. When the red light turns on, proceed to step 6.

6) CHECK "FFI" LED INDICATORS



Each amplifier block comes equipped with 2 FAULT LED indicators. These indicators are designed to light up when a module is malfunctioning. Normally, a lit LED indicates that the rail voltage fuse is burnt and it requires replacement.

7) SET CROSSOVER SWITCH TO BYPASS-FULL RANGE



The Cinénova Grande houses 5 or 7 amplification modules. Each module comes equipped with a variable filter that can be controlled with a 3-way switch. Generally, the amplifier is used in full range mode and fed a crossed signal from a processor. Unless otherwise desired, the crossovers switches should remain in the "BYPASS" position.

LOCATION CONSIDERATIONS

The CineNova Power Amplifiers require care during installation to ensure optimal performance. These amps should be installed in or on an extremely sturdy and level surface with optimal breathing room (at least 2 inches of open space on all sides).

CAUTION

DON'T hurt your back, recruit a friend to help you unpack this amplifier.

T.O.C.

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Getting Started

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About The Cinénova Grande Amplifiers

Thank you for purchasing this Cinénova Grande reference amplifier designed to satisfy your audiophile needs for music enjoyment. The Cinénova Grande is conceived to reproduce "true to life" music as it was originally recorded, without tempering, coloration or compression.

Like the finer things in life, the Cinénova Grande was conceived with love for details, hunger for power, and gratifying grace; consequently ranking it "at the top" in the realm of High Fidelity.

Most of home theater systems sold to consumers integrate low power amplifier / receiver units, normally not exceeding 150 Watts per channel. However, professional theater systems employ individual components which provide the best separation and potentially a lot more power. Audiophiles agree that an audio amplifier is the heart of any system; it must be able to meet the demands of the softest musical passage to the thundering special effects of a movie, without sacrificing audio quality.

The Cinénova Grande's untainted sonic quality is only matched by its enormous power and stringent technical performance. The finesse of high-fidelity audio, combined with the mastery of multi-channel amplification, make the Cinénova Grande the cornerstone for a high-end home theater setup. This amplifier caters to both the music aficionado and the home cinema buff. After all, faithful reproduction of music is our business.

The Cinénova Grande technology integrates minimum number of components in the audio path, leading to excellence in sound quality, efficiency, and clean amplification. Working side by side with Engineers from Toshiba, our engineers helped develop one of the fastest transistors in the industry, a 15 Giga-Hertz switcher. Fast,

accurate, and powerful, the 15 GHz switcher allowed engineers to use less number of components in the audio path. Users are able to enjoy pure music, untainted by components distortion.

Earthquake Engineers, driven by their desire for excellence, pushed the envelop beyond its limits. They designed the "bi-file" toroidal transformer circuit which allows five separate power supplies (one for each channel) to be magnetically coupled to one single primary 4KVA transformer. The 99% efficient power supply permits large amount of voltage to flow through with near nil heat losses.

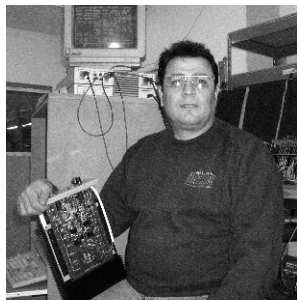
The "Alpha One" is a monaural 1000 watts amplification/power block, used in both the 5-channel and 7-channel Cinénova grande amplifiers. The "Alpha One" blocks are individually removable using the Earthquake patented "EZXS" system, without the need to dismantle the rest of the amplifier. Channel separation exceeds the norms of 90 decibels and stretches it to 110 decibels.

"Sounding good" and "looking good" are both integral characteristics of a Cinénova Grande amplifier. The elegant industrial design is only surpassed by the sturdy chassis upon which the amplifier is built, 12 gauge steel is shaped to house the "Alpha One" modules and transformer. The chassis is beautifully faced with an 8 mm aluminum plate, hand engraved and available in both Black and Platinum finish.

Constructing a Cinénova Grande is a fun process. From hand assembling, calibrating, burn testing, and packaging, every step is conducted with love for details and hunger for perfection. We enjoyed building your Cinénova Grande and we hope you will feel the same using it.

From our home to your home... Thank you.

Joseph J. Sahyoun



*Professor Joseph J. Sahyoun;
President & Chief Engineer*



Individually hand assembled and tested, these Monsters are lined up for final packaging. Wood crates are used to package these 130lbs (+) amplifiers to prevent any damages during shipping.



Five (5) year limited warranty

Earthquake warrants the original purchaser that all Factory Sealed New Audio Products to be free from defects in material and workmanship under normal and proper use for a period of five (5) years from the date of purchase (as shown on the original bill of sale with serial number affixed/written on it). The five (5) year warranty period is valid only if an authorized Earthquake dealer properly installs the product and the warranty registration card is properly filled out and sent to Earthquake Sound Corporation. If a non-authorized party installs the product, a ninety (90) day warranty period will be applied.

(A) Five (5) years limited warranty plan coverage guidelines:

- **First year:** Earthquake pays for labor, parts, and ground freight (only in US mainland, not including Alaska and Hawaii) (shipping to us is not covered).
- **Second year:** Earthquake pays for labor and parts only, customer must pay freight both ways.
- **Third, fourth & fifth year:** Earthquake pays labor only. Customer must pay for parts and freight both ways.

(B) Warning:

Products (sent for repair) that are tested by Earthquake technicians and deemed to have no problem(s) will not be covered by the five (5) year limited warranty. Customer will be charged a minimum of one (1) hour of labor (at the ongoing rates) plus shipping charges back to customer.

(C) Earthquake will repair or replace - at our option - all defective products/parts subject to the following provisions:

- Defective products/parts have not been altered or repaired by other than an Earthquake factory-approved technician.
- Products/parts are not subjected to negligence, misuse, improper use or accident, damaged by improper line voltage, used with incompatible products or have its serial number or any part of it altered, defaced or removed, or have been used in any way that is contrary to Earthquake's written instructions.

(D) Warranty Limitations:

Warranty does not cover products that have been modified or abused, including but not limited to the following:

- Damages to speaker cabinet and cabinet finish due to misuse, abuse or improper use of cleaning materials/methods.
- Bent speaker frame, broken speaker connectors, holes in speaker cone,

surround & dust cap, burnt speaker voice coil.

- Fading and or deterioration of speaker components & finish due to improper exposure to elements.
- Bent amplifier casing, damaged finish on the casing due to abuse, misuse or improper use of cleaning material.
- Burnt tracers on PCB.
- Product/part damaged due to poor packaging or abusive shipping conditions.
- Subsequent damage to other products.

A warranty claim will not be valid if the warranty registration card is not properly filled & returned to Earthquake with a copy of the sales invoice. Warranty card is located on the last page of this manual.

(E) Service Request:

To receive product service, contact Earthquake service department at (510) 732-1000 and request an RMA number (Return Material Authorization). Items shipped without a valid RMA number will be refused. Make sure you provide us with your complete/correct shipping address, a valid phone number, and a brief description of the problem you are experiencing with the product. In most cases, our technicians might be able to resolve the problem over the phone; thus, eliminating the need to ship the product.

(F) Shipping Instructions:

Product(s) must be packaged in its original protective box(es) to minimize transport damage. Shipper claims regarding items damaged in transit must be presented to carrier. Earthquake Sound Corporation reserves the right to refuse improperly packed product. Original bill of sale must accompany product returned for service. We encourage you to include with the package a written description of the problem. Ship product to: Earthquake Sound Corp. 2727 Mc Cone Avenue, Hayward, CA 94545. Ph (510) 732-1000. You are responsible for the cost of shipping the product to Earthquake Sound Corporation.

(G) Disputes Resolution:

All disputes - between clients and Earthquake Sound Corporation - resulting from the five (5) years limited warranty policy must be resolved according to the laws & regulations of the county of Alameda -California.

We recommend that you place or write your serial number here for future reference, if necessary.

SERIAL NUMBER

PRODUCT REGISTRATION

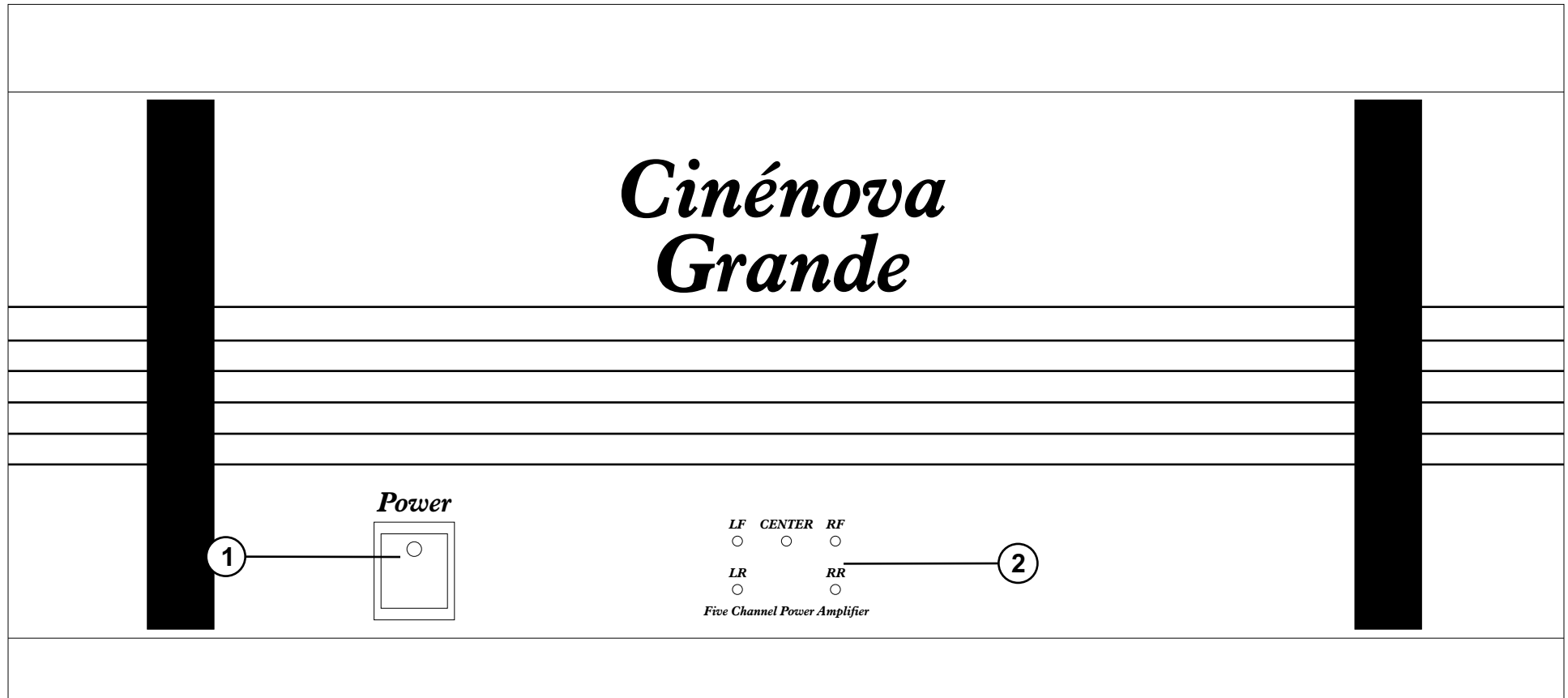
This Cinénova Grande Power Amp can be registered by returning the Product Registration card attached to this manual or by visiting www.earthquakesound.com/product-registration. Please also retain the bill of sale, which represents proof of purchase and helps expedite warranty issues.



Basic Operation

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Front Panel



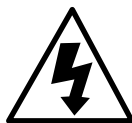
1) Power/Standby switch

2) Channel Status LEDs

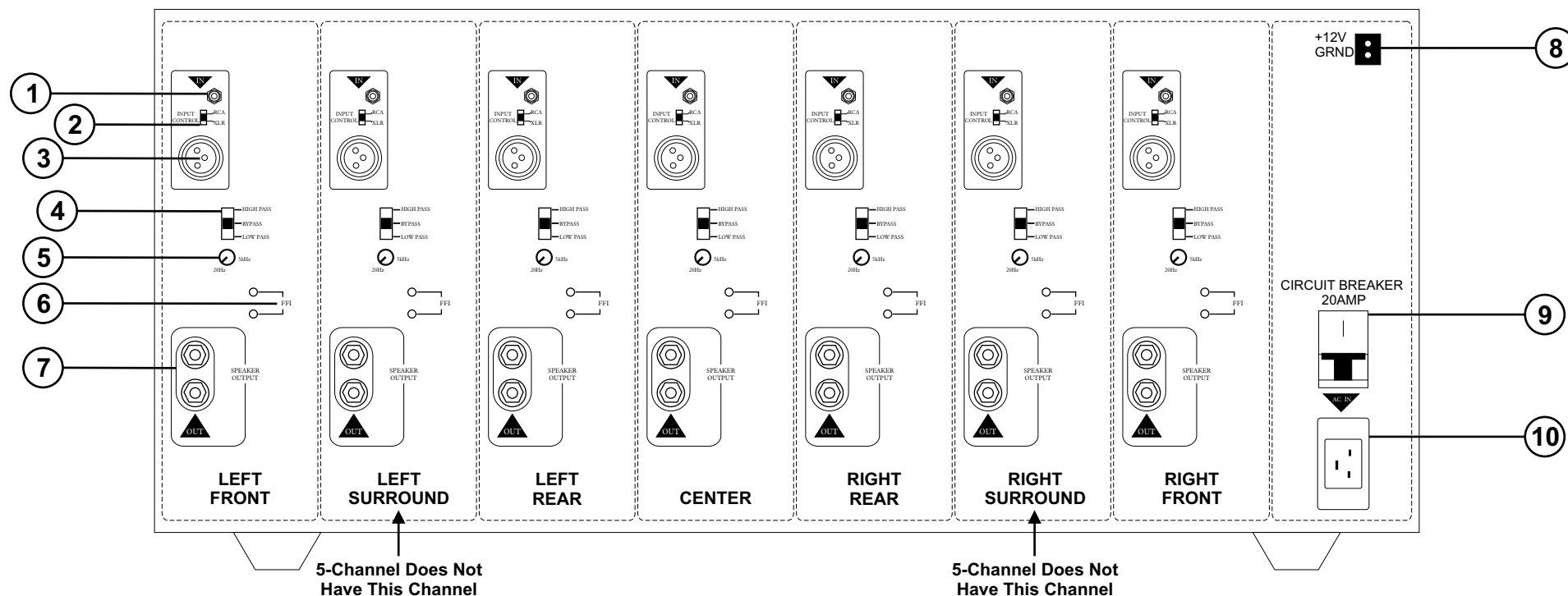
Note:

Each LED represents one channel. For the 5-channel there is five LEDs meanwhile the 7-channel has seven LEDs.

Rear Panel

**WARNING**

External wiring connected to connectors marked with the triangle pictured at the left requires installation by an instructed person or the use of ready-made leads or cords.



1) RCA inputs

2) Input control

3) Balanced XLR inputs

4) By pass switch

5) 20Hz-5kHz Frequency adjustments

6) Fused operation indicators

7) Gold plated speaker output binding posts

8) +12 Volt Ground

9) 20 Amp circuit breaker

10) 3-Prong power connection

Note:

The Cinènova Grande 5-Channel is mapped out exactly the same as the 7-channel, but lacks the two surround channels.

Front Panel Overview

1. POWER SWITCH

Disconnects power to the AC input connector. Set this switch to OFF when making or breaking connections to the amplifier, or when changing the setting of the MODE switch.

2. PEAK LED INDICATOR:

The Cinénova Grande is equipped with five or seven LED indicators on the front panel. These LEDs indicate the operating status of each corresponding channel. If an LED or all LEDs remain lit continuously, the amplifier is clipping and the volume should be turned down immediately to prevent damage. If the LEDs are simply flickering, the amplifier is close to its limits and should not be pushed any further.

Rear Panel Overview

1. RCA INPUT

Each channel is capable of being run with balanced XLR inputs or RCA inputs. Using RCA inputs is a lower cost solution that delivers great results for any home theater.

2. INPUT CONTROL

To maintain signal integrity CineNova-7 provides you with an "Input Selector Switch". This gives you (installer) the option between RCA or XLR inputs.

3. BALANCED XLR INPUT

The Cinénova Grande amplifiers come equipped with our new Balanced XLR inputs. The use of XLR inputs is a more balanced and high-performance approach to connecting your home theater system.

4. BYPASS SWITCH

A 3-way switch controls the operation of the filter; with a simple flick of the switch, the amp can run in full range, low pass, or high pass mode.

5. FUSED OPERATION INDICATORS

Though we have taken every conceivable precaution to ensure long lasting and trouble-free operation, occasionally a unit will malfunction. For that, we have made diagnostic simple: each mono block is equipped with two (10 Amperes) fuses designed to protect and monitor the voltage of operating rails (+/-). Each fuse carries its own fault LED indicator that illuminates when the fuse is burnt.

6. 20HZ-5KHZ FREQUENCY ADJUSTER

Each monaural block features a built-in low pass/high pass variable filter. The fully buffered filter has a range of 20 Hz to 5 kHz.

7. OUTPUT BINDING POSTS

Gold plated heavy duty binding posts deliver high power output for premium sound quality.

. . . continued on page 2-5

Rear Panel Overview continued...

8. AC INPUT CONNECTOR

A special heavy duty - 20 Amperes - AC cord is included with every unit. Do not attempt to replace the AC cord with lesser quality AC cords.

WARNING Do not remove the ground prong on the AC power cord. This will result in a safety hazard.

9. 12V GROUND

Enables the amplifier to be controlled by another external device with a 12V DC trigger output. Connect the TRIGGER OUTPUT of the external device to the TRIGGER INPUT of the amplifier. Then, set the TRIGGER switch on the amplifier to ON or DELAY. The amplifier will automatically respond when the external device is powered on and off.

10. 20 AMP CIRCUIT BREAKER

The Cin nova Grande amplifiers integrate multiple channels of amplification (5 & 7). Each channel (block) is capable of producing up to 750 Watts when driven in 2-ohm load. The enormous amount of power generated by the amplifiers requires a stable 110/220V connection.

Each of the Cin nova Grande amplifiers comes equipped with a 20-Ampere circuit breaker (on the back plates) designed to prevent damages to the unit in case of abnormal AC power surges and deviations. Do not replace the breaker without consulting an Earthquake technician.

To ensure proper operation, make sure that a 20-Ampere circuit is available where the amplifier is going to be plugged. If in doubt, consult with an electrician. Most homes are wired with 20-Ampere circuits, but there is a chance that the wall receptors are rated only 15 Amperes. After all, proper power supply translates into better performance. **CALL AN ELECTRICIAN FOR ASSISTANCE.**



Special Features

Multiple gigantic heat sinks:

Over 500 square inches of heat radiating aluminum surface per channel maximizes heat exchange for cooler amplifier operation. The 12 gauge steel cover is perforated - top and sides- for effective air circulation.

Peak LED indicators:

The Cinénova Grande is equipped with five or seven indicators -LEDs- on the front panel. They show the operating status of each channel; the LEDs will illuminate when the maximum recommended output is exceeded. If an LED is illuminated the majority of the time, it indicates that the corresponding channel is over-driven (clipped). The input to the channel must be reduced to eliminate distortion and eventually, damages to the amplifier.

Thermal protection:

Each monaural block is equipped with a thermal sensor designed to shut the amplifier down when it overheats. Overheating is not typical. It only occurs if the amplifier is over driven with low impedance speakers, or if the amplifier is located in an improperly ventilated space.

Individually selected and matched components:

Components used to construct the Cinénova Grande are subjected to an exhaustive selection process; during which, the components are matched and individually tested to exact tolerance. The multi-layer, glass-epoxy, double sided printed circuit boards

exceed the military stringent requirements by 50%; we use 3 oz copper tracers. Each block hosts twenty 15 Giga-Hz ultra high current Toshiba transistors.

Toroid power transformer:

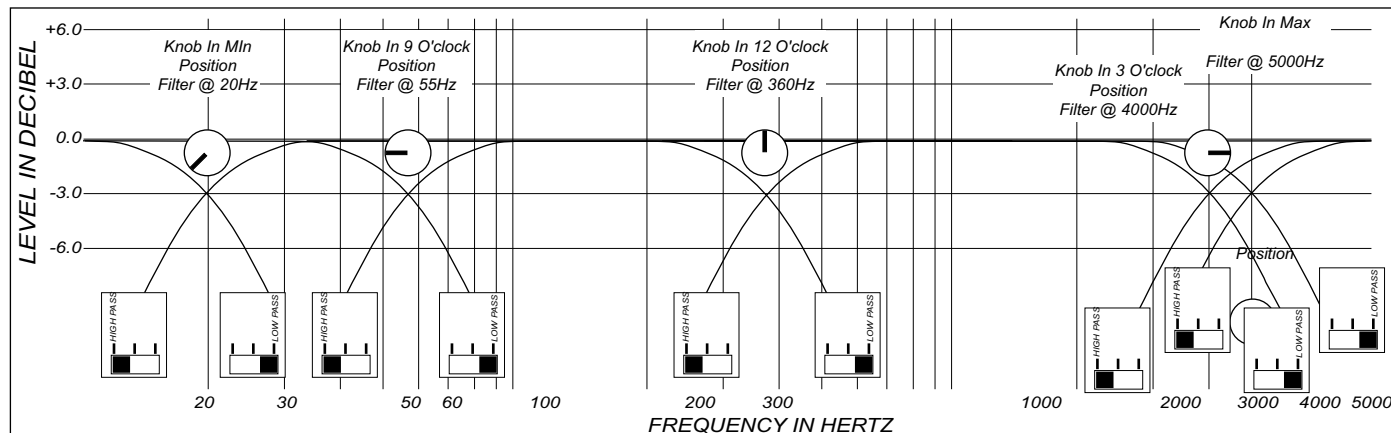
Each Cinénova contains a monstrous 4KVA high efficiency toroid transformer. This ferrite core transformer weighs over 30Lbs and is wound with oxygen free, 99% pure copper that minimizes transport losses. Hum suppression is accomplished by using a 12 gauge toroid mount, insulated with 10 layers of pressed foam.

EZXS detachable monaural blocks:

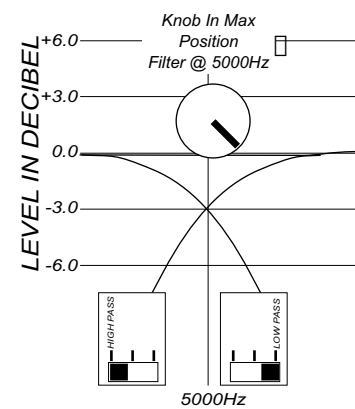
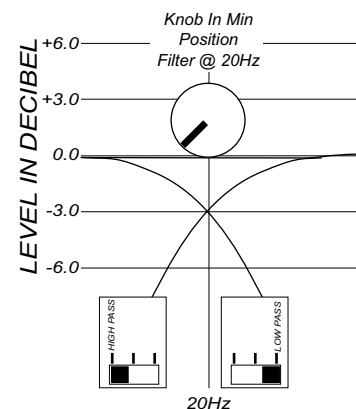
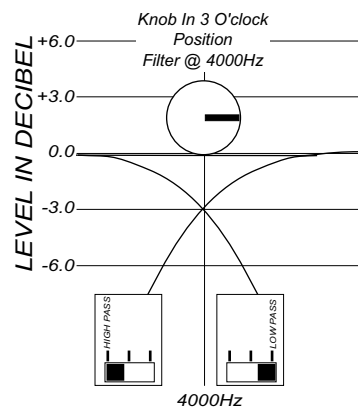
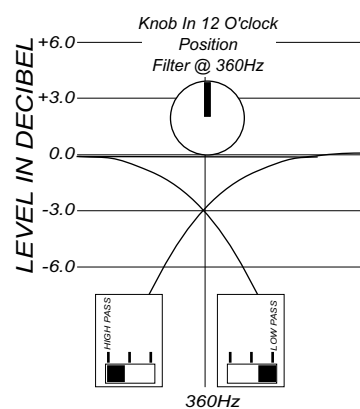
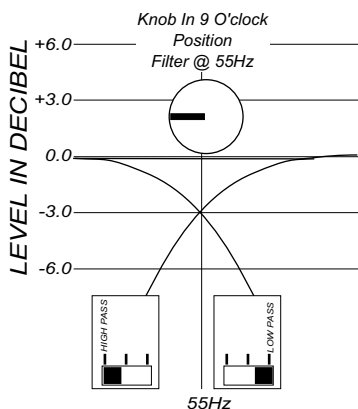
Five or seven totally independent mono-block amplifiers (15 Ampere capability) each with its own power supply circuitry and pre-amplification stage. For ease of service, each block can be individually removed and serviced without the need to dismantle the entire amplifier. EZXS is a trademark of Earthquake Sound Corporation.

Filter Settings

Each channel - monaural block - of the Cin nova Grande amplifiers comes equipped with a fully buffered variable filter (range: 20 Hz to 5000 Hz). Once a crossover point is selected, the block can be run in low pass or high pass configuration, simply by a flick of a 3-way switch; the filter can be bypassed by setting the switch to the full range position.



Refer to the following illustrations for filter setting:





Troubleshooting & Maintenance

Troubleshooting & Maintenance 3-2

Troubleshooting

Amplifier ON no sound

- a) Completely shut your system down, including your Cinénova.
- b) Now, power up the Cinénova again.

c) Set the crossover switch so that it is centered. Slide it up and down and finally back to the middle position.

d) Confirm that the output wire is connected to the speaker.

e) Unplug and plug the RCA input at the amplifier, you should hear a thump during this process.

WHEN THUMP IS HEARD>>>>

f) Check your input source signal. Make sure they are connected properly to output, not input.

g) Try to change source to make sure that at least one of the sources works.

WHEN NO THUMP IS HEARD>>>

h) Check amplifier- speaker connections.

i) Make sure the power output terminal is securely connected to the amplifier speakers. **NOTE:** It is possible that if you have proper connections and you don't hear sound, the speaker is burnt.

Front LEDs are ON all the time

It is normal when running the amplifier to full power that the LEDs flicker. If you see that the LEDs are on constantly without flickering (solid orange) it means that the amplifier is clipping. Reduce volume level to prevent damage to the unit.

Turn amplifier ON and circuit breaker shuts down

This can either be a short in amp or poor circuit breaker in the house. Plug amplifier into another outlet on a different circuit breaker with nothing connected. If the amp turns on then the problem is with your home circuit breaker. If the amplifier still does not power up, please call Earthquake to consult with a technician.

Note:

Visit www.earthquakesound.com for answers to frequently asked questions and additional troubleshooting information.

Humming noise from speakers.

Often humming noise is emanating from equipment that have their ground prong broken.

a) With the amplifier OFF, unplug all RCAs connected to the amp.

b) Turn on amp and listen to speakers.

If buzz has changed or reduced in level, then the problem is coming to the amp from another source. The rest of the hum you hear is normal and related to the fact that the RCAs are open ended and not connected to any thing.

c) If above steps do not isolate your problem: star-ground all components except amplifier from their chassis to the processor.

If you are still stuck...

1. Contact an authorized Earthquake Dealer.
2. Contact Earthquake Sound Customer Service.

MAINTENANCE

The following routine maintenance should be performed on a periodic basis:

- Clean the exterior surfaces of the unit with a soft, dry, lint-free cloth.
- Do not use alcohol, benzene, acetone-based cleaners, or strong commercial cleaners.
- Do not use a cloth made with steel wool or metal polish.
- If the unit is exposed to a dusty environment, a low-pressure blower may be used to remove dust from its interior & exterior.

A



Appendix

Features & Specifications	A-2
IQ Performance Sheet	A-3

FEATURES

- Independent removable amplification blocks
(EZXS detachable monaural blocks)
- Built in line conditioner
- 5.1 and 7.1 configurations
- Balanced XLR inputs per channel
- 12-Volt trigger
- Integrated Low-pass & High-pass variable filters
- 20Hz-5kHz switch per channel
- Oversized toroidal power transformer with extraordinarily low DC resistance and thermal protection
- Fused operation indicators
- Thermal protection against overheating
- Individually selected and matched components
- Speaker protection against DC and frequencies below 10Hz
- Protection against short circuits, device failures, miss wiring, and internal faults
- Heavy duty gold plated outputs

SPECIFICATIONS

- **Number of channels:**
5-channel Cinénova - (5) discrete monaural blocks
7-channel Cinénova - (7) discrete monaural blocks
- **Power rating per channel:**
(8-ohm load), all channels driven: 328 Watts
(4-ohm load), all channels driven: 600 Watts
(2-ohm load), all channels driven: 750 Watts
- **Frequency response measured at 1 watt with +/- 0.1 dB:**
20 Hz to 20 kHz
- **Channel separation:** greater than 95 dB
- **Maximum input voltage:** 1.9 Volts
- **Input impedance:** 27,000 ohms
- **Total harmonic distortion - THD:**
1 kHz, 8-ohm load: 0.001%
20 kHz, 8-ohm load: 0.003%
1 kHz, 4-ohm load: 0.003%
20 kHz, 4-ohm load: 0.006%
1 kHz, 2-ohm load: 0.005%
20 kHz, 2-ohm load: 0.006%
- **Signal to noise ratio measured:**
at 1 kHz: 112 dB
at 5 kHz: 111 dB
at 10 kHz: 110 dB
- **High-pass / low pass variable filter:**
range 20 Hz to 5 kHz (one per channel)
- **Dimensions 5 and 7-Channel:** (HxWxD)
9 1/4" (235mm) x 18" (457mm) x 21" (533mm)
- **Weight :**
7-Channel: 122 lbs
5-Channel: 110 lbs

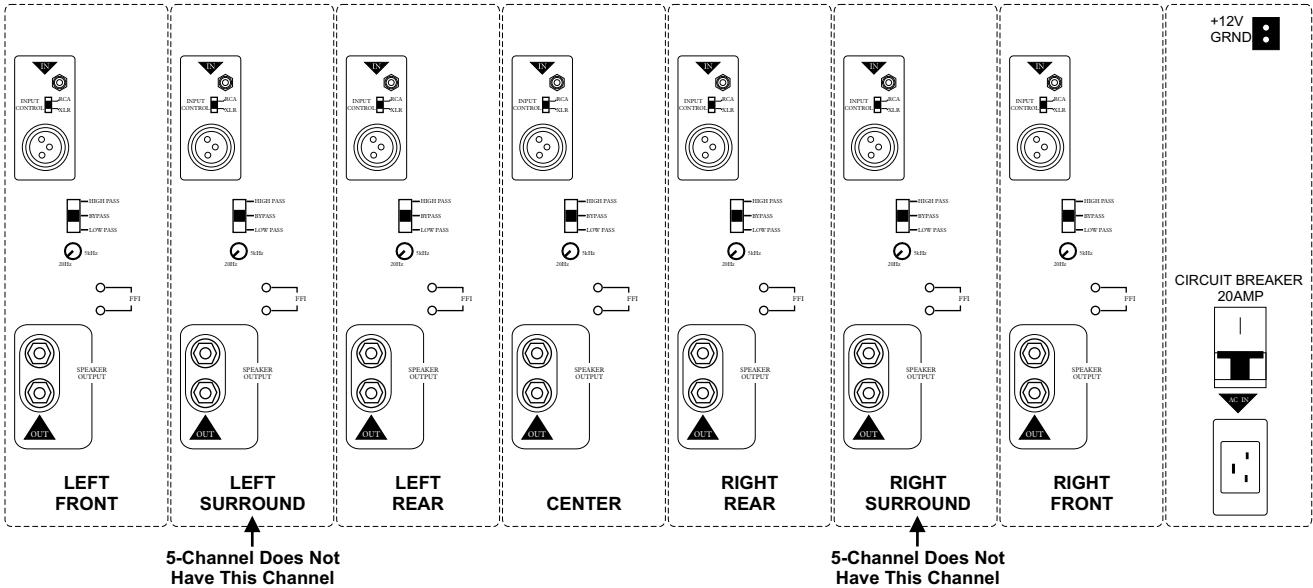


In an honest effort to provide you with accurate and precise information about the Cin nova Grande amplifier you have just purchased, Earthquake Sound Corporation would like you to be informed and aware of what is considered good, bad and reference in the high end audio industry.

The numbers shown below are the distortion (THD) and the signal to noise (S/N) measurements for your amplifier. Please note that all measurements are made with 4-ohms dummy loads connected to each individual channel; using the Audio Precision ATS1 - one of finest test machines available, connected to oscilloscope. This amplifier is designed to handle

loads from 2 ohms all the way to 8 ohms, and to provide you with accurate, clean music reproduction.

According to the industry standards, a signal to noise of 90dB to 100dB is considered "very good", and 100dB as being "excellent". Every time you increase the S/N by 3dB, you are reducing the noise by a "half level". With this in mind, please read through the test results of your Cin nova Grande and compare these numbers to other manufacturers numbers. Only then, you will realize how great of a performer your amplifier is.



Signal to noise target 105dB	LF	LS	LR	C	RR	RS	RF
THD+noise target 0.05							

Seven-Channel Cin nova Grande ☐

Silver ☐ 110v ☐

Five-Channel Cin nova Grande ☐

Black ☐ 220v ☐

Tests performed by:

Date:

Notes



The Sound That Will Move You.

Earthquake Sound reserves the right to amend details of the specifications without notice.
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Earthquake Sound Corporation • 2727 McCone Avenue Hayward CA, 94545
Phone: 510-732-1000 Fax: 510-732-1095