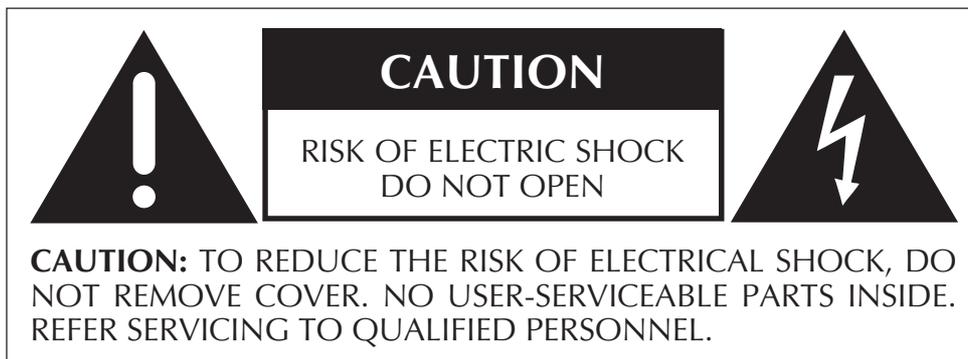


CLASSE

Owner's Manual
Omega Series
Omega Monoblock

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



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.



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



Marking by the CE symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community.

NOTICE

All of us at Classé take extreme care to ensure that your purchase will remain a prized investment. We are proud to inform you that all Classé components have been officially approved for the European Community (CE) mark under CE Certificate Number C401CLA1.MGS granted on 18 July 1996.

This means that your Classé product was subjected to the most rigorous manufacturing and safety tests in the world. The CE mark certifies that your purchase meets or exceeds all European Community requirements for unit-to-unit consistency and consumer safety.

CAUTION: Changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate the equipment.

The information contained in the manual is subject to change without notice. The most current version of this manual will be posted on our web site at <http://www.classeaudio.com>.

Important Safety Instructions

CAUTION:

Please read and observe all warnings and instructions in this owner's manual and all those marked on the unit. Retain this owner's manual for future reference.

1. **Do not attempt to service this product yourself.** Do not open the cover for any reason. There are no user-serviceable parts inside. An open unit, particularly if it is still connected to an AC source, presents a potentially lethal shock hazard. Refer all questions to authorized service personnel only.
2. **To prevent fire or shock hazard, do not expose the unit to water or moisture.** If a liquid does enter your component, immediately disconnect it from the AC mains and take it to your Classé dealer for a thorough checkup.
3. **Do not place your component near any heat-producing device** such as a radiator, stove, etc. Keep it away from direct sunlight.
4. **Connect your component only to an AC source of the proper voltage.** The shipping case and the rear panel serial number tag will indicate the proper voltage. Use of any other voltage may damage the unit and void the warranty.
5. **AC cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them.** Do not stress the AC cord by stretching it to a plug. If damage does occur to the AC cord, take it to your Classé dealer for a thorough check-up and proper repair or replacement.
6. **If your component will be out of use for an extended period of time (vacation, etc.),** you may wish to unplug the power cord from the AC source to prevent any chance of problems from a voltage surge or lightning strike.
7. **NEVER** wet the inside of this product with any liquid.
8. **NEVER** pour or spill liquids directly onto this unit.
9. **NEVER** block air flow through ventilation slots or heatsinks.
10. **NEVER** bypass any fuse.
11. **NEVER** replace any fuse with a value or type other than that specified.
12. **NEVER** attempt to repair this product. If a problem occurs, contact your Classé dealer.
13. **NEVER** expose this product to extremely high or low temperatures.
14. **NEVER** operate this product in an explosive atmosphere.
15. **ALWAYS** unplug sensitive electronic equipment during lightning storms.

Please record the serial number for your new Classé component here for future reference.

Serial #: _____

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Welcome to the Classé family

Congratulations on your purchase of a Classé Omega product. It is the result of many years of continuous refinement, and we are confident that you will enjoy it for many years to come.

We value our relationship with our customers. Please allow us to stay in touch with you by returning your warranty card now, before you put away the shipping case of your new product and forget all about it. Doing so will enable us to let you know about any possible future upgrades or updates that might become available for your Classé component.

Sending in your warranty card also registers your product with us so that warranty service can be obtained easily and quickly, even if you have mislaid your original sales slip.

You will find the warranty registration card at the end of the enclosed warranty policy booklet.

Please, take a few minutes to fill out the warranty registration card, and drop it in the mail.

Unpacking and Placement

unpacking your amplifier

Carefully unpack your Omega Mono power amplifier according to the supplied instructions, and remove all accessories from the case. Please take proper precautions when lifting the Omega Mono, as it is extremely heavy.



Important!

The unpacking and placement of the Omega Mono power amplifier requires two people. Please refer to the separate instruction sheet provided for instructions on how to do this safely and easily.

We recommend keeping the shipping case for future transport of your Classé product. Shipping your component in anything other than its purpose-designed shipping case may result in damage that is not covered by the warranty.

placement

There are two options when placing your Omega Mono power amplifier: you may place it close to the speakers, requiring longer interconnecting cables from the preamplifier; or place it close to the preamplifier, requiring longer speaker cables.

Although either approach will yield excellent performance, you might consider the first option for two reasons. First, signal quality degrades more easily when transmitted as a combination of both high voltage and high current, meaning that speaker cables should be kept as short as practical. Second, high-quality amplifiers use massive power supplies which inevitably radiate some degree of magnetic fields. Ideally, one would separate these fields from sensitive source components by a reasonable distance.

If it is more convenient for you to place the amplifier in an equipment enclosure, along with your other components, we suggest placing it at the bottom of the enclosure, well away from your source components and preamplifier.

Note that adequate clearance for the AC cord and connecting cables must be left behind the Omega Mono. We suggest leaving eight inches (20 cm) of free space to allow all cables sufficient room to bend without crimping or undue strain.

| | |
|-----------------------------------|---|
| ventilation | Your Classé Omega Mono generates a certain amount of heat in the course of normal operation. Be sure to allow six inches of clearance above it and three inches to each side to allow heat dissipation through air circulation. The vents on the bottom, front and back of the Omega Mono must be kept free from any obstruction which would reduce the flow of air through the unit. Avoid placement on soft surfaces that would restrict airflow (such as plush carpeting). |
| custom installations | Drawings are included in this manual to facilitate special installations and custom cabinets (see the section <i>Dimensions</i>). |
| serial number | The serial number for your Omega Mono power amplifier is found on the rear of the unit. Please note and record this number on the page entitled <i>Important Safety Instructions</i> for your future reference. |
| register your purchase! | <p>Having found the serial number, now would be a good time to fill out the registration card. Please register your purchase so we can advise you of updates and other items of interest.</p> <p>It will take only a minute or so. Please complete the card now, before you forget.</p> |
| please read this manual... | Please take a few minutes to review this manual, and to familiarize yourself with your new amplifier. We understand that you are anxious to plug everything in and get started. However, reading this manual and following the advice it gives will ensure that you get all the benefits you deserve from having purchased such a fine piece of equipment. |

Operating Voltage

The Omega Mono power amplifier is set at the factory (internally) for 100V, 120V, 230V, or 240V AC mains operation, as appropriate for the country in which it is to be sold. (*230V only in European Union countries, in compliance with CE regulations.*) The voltage setting may not be changed by the user.

Make sure that the label on the rear panel indicates the correct AC operating voltage for your location. Attempting to operate your power amplifier at an incorrect voltage may damage the unit.



Warning:

The voltage setting of the Omega Mono power amplifier may not be changed by the user and there are no user-serviceable parts within the unit. Please refer any problems to an authorized Classé service center.

If the AC mains voltage indicated on your power amplifier is incorrect, please contact your authorized Classé dealer or distributor.

The Omega Mono power amplifier can be powered by a normal 15-ampere AC mains line. For peak performance, we suggest that you consider dedicating an outlet exclusively for the Omega Mono.

The Omega Mono power amplifier includes protection circuitry that will prevent the amplifier from operating at dangerously high or low voltages.

- **at startup:** the AC mains voltage must be within a range of approximately -15% to +10% of its nominal value at startup, or the amplifier will not turn on. For example, a 120V unit requires the AC mains to be between approximately 95V–135V in order to turn on.
- **over-voltage during operation:** if the AC mains voltage surges by roughly 10% or more during operation, the amplifier will enter protection mode and shut down. The **Ω indicator** color will alternate between red and blue to indicate that the protection mode has been engaged.
- **under-voltage during operation:** if the AC mains voltage sags by 15% or more, the amplifier will continue to operate (since this does not present a particular danger to the amplifier), but note that it will not be able to achieve its usual standard of performance under these compromised conditions. The **Ω indicator** will alternate between red and blue to indicate this condition.

warm up/break-in period

Your new Classé Omega Mono power amplifier will deliver outstanding performance immediately. However, you should expect to hear it improve somewhat as it reaches its normal operating temperature and its various components “break-in.” It has been our experience that the greatest changes occur within the first 300 hours, as the amplifier reaches thermal equilibrium and the capacitors fully form. After this initial break-in period, the performance of your new product should remain quite consistent for years to come.

The only exception to this rule is if the unit is placed in standby or unplugged for an extended period of time, allowing it to cool down. Depending on the degree of cooling involved, you should expect a brief warm-up period before the Omega Mono’s sound quality is at its best. Unless your amplifier was allowed to become quite chilled, subsequent thermal re-stabilization should not take long. Fortunately, you should never have to repeat the initial 300 hour break-in period.

A Word About Installation

Every effort has been made to make the Classé Omega Mono simple and straightforward to install and use.

Still, we have no way to evaluate many other variables such as the size and shape of your room, its acoustics, and the associated equipment you have chosen to use with your amplifier. All of these factors influence the ultimate performance of your system.

For this reason, we strongly encourage you to have your system installed and calibrated by your dealer, whose experience, training, and specialized equipment can make a profound difference in the final performance of the system.

Special Design Features

design team philosophy

All of our components benefit from the same rigorous design goal:

All Classé products must reproduce music with the harmonic and spatial integrity typical of fine instruments heard in a live, unamplified performance.

To this end, we make extensive use of carefully optimized versions of the same basic circuit precisely matched to specific power requirements. This means that all Classé line level components and power amplifiers benefit from years of refinement. However, our efforts do not stop here.

Once we determine general circuit values for a particular application, we listen carefully while exchanging and mixing different parts (transistors, capacitors, wiring, printed circuit boards, etc.) and adjusting specific operating voltages within proper engineering ranges.

Every Classé component, even the most affordable, benefits from our painstaking approach to design parameters. The result is an optimum balance between the often-conflicting demands of exceptional performance and long-term reliability. Our Omega components benefit from even tighter tolerance parts and highly segmented and exceptionally robust power supplies with large reserve-current capabilities.

We build all of our components to the highest possible standards. From multilayer glass-epoxy circuit boards, the full sized power-supplies, and the massive faceplates, every Classé product is a tribute to both the science and art of sound reproduction. We hope that you derive as much pleasure and satisfaction in using your Classé as we did in producing it.

highly refined circuit design

All Classé analog amplification stages are based on circuits that have been extensively optimized over many years of continuous development.

The unique Omega design utilizes 64 output devices in a special arrangement designed to maintain internal rail voltage under the most adverse conditions. The 64 output devices are divided evenly, with 32 being utilized to maintain rail voltage, and the other 32 utilized as output power devices. The result of this unique design is an amplifier that offers uncompromised performance.

By starting with excellent circuit designs and working with them over the years, we were able to discover the many small refinements that add up to superlative performance, in a variety of applications. Altering a

voltage here, or using a slightly different part there, may make all the difference between solid and absolutely outstanding performance.

This level of refinement only comes with a great deal of experience, and is not available to those who flit from one trendy notion to the next. It accounts in no small measure for both the consistency of sonic performance among Classé products (as they are all based on similar analog gain stages), and for the consistently excellent reviews those products receive by owners and reviewers alike.

extensive listening tests

Excellent measured performance is to be expected in world-class products, and Classé products deliver that performance. However, experience has shown that technical excellence alone is insufficient to guarantee subjectively musical results.

For this reason, all Classé products are laboriously fine-tuned during the development process by carefully controlled listening tests. Our ears are still some of the finest laboratory test instruments available, and nicely complement more traditional engineering test equipment. In the course of optimizing the circuitry for a product, hundreds of decisions are made based on the subjective impression given by substituting one high quality part for another.

As an example, we may listen to half a dozen 0.1% tolerance film resistor components of the same value, from several different companies. Standard tests may show them all to provide identical results in terms of noise, distortion, and so forth. Yet, almost invariably, one selection yields some small improvement in the subjective reaction to the performance of the product under development. Less often, even a single such change can result in a surprisingly large improvement.

Multiply those various improvements by the dozens or even hundreds of such decisions that must be made before the product can be finalized for production, and you have a remarkable improvement indeed - all based on careful listening tests, which we view as a necessary complement to the solid engineering you might rightly expect from Classé.

extraordinary longevity

Another benefit of having worked with highly refined circuit designs so extensively over many years is that we have vast experience in what works well over the long term.

By using only the highest quality parts to begin with, and then using them in an informed way as a result of both accelerated aging experiments and actual long-term experience, we are able to design and manufacture products which we are confident will stand the test of time.

We are confident that your new Classé product will give you many years of trouble-free reliability and musical enjoyment, just as previous Classé products have given their owners.

robust protection

Finally, your new Classé amplifier incorporates a variety of protection circuits, all designed to protect both the amplifier and your loudspeakers against dangerous fault conditions. Significantly, these protection circuits do not intrude upon or limit the normal performance of the amplifier; rather, they simply shut the amplifier down when confronted with dangerous conditions. These conditions include:

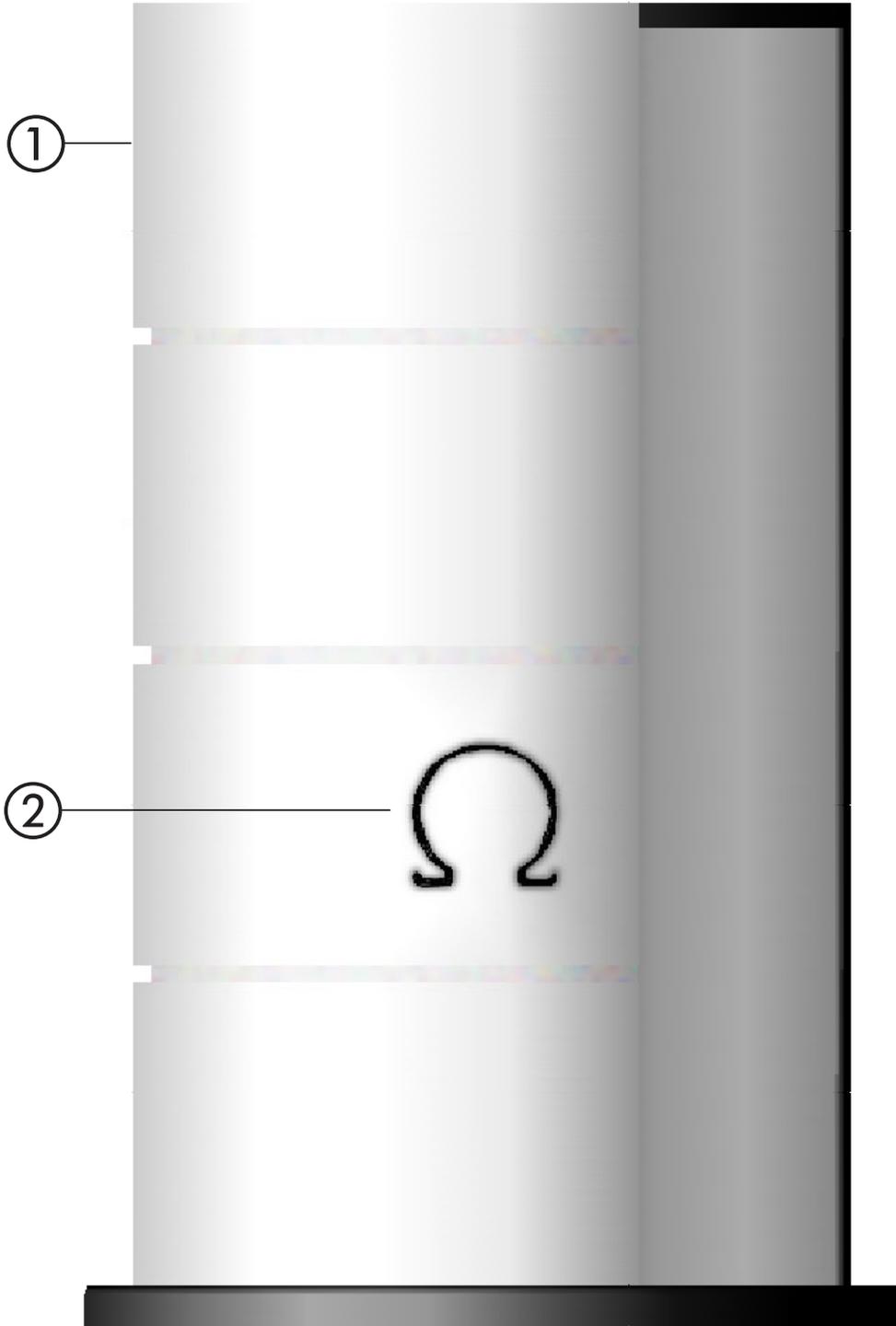
- output overload
- clipping
- DC offset
- excessive operating temperatures
- AC mains voltage above normal tolerance

If any of the above conditions should occur (*any of which might harm either your amplifier or possibly your loudspeakers*), the amplifier will shut itself down. If the fault is not amplifier-related (AC mains voltage out of range, for example), the **Ω indicator** color will alternate between red and blue. In all other cases, the **Ω indicator** will blink red until the fault can be righted and the amplifier is restarted.



Caution!

If you see the Ω indicator blinking as described above, please disconnect the amplifier from the AC mains immediately and check that all external connections are cleanly made and secure. If no fault is immediately obvious, please call your local, authorized Classé dealer for assistance.



Front Panel

1 Standby button

The **Standby** button, situated near the top of the side panel, will toggle the Omega Mono between its fully functional *operate* mode and a *standby* mode that leaves the amplifier *off* yet ready to respond to system commands via any of the supported control options (e.g. IR In, Trigger In, CAN Bus, or RS-232).

2 Ω indicator

The amplifier state is indicated by the **Ω indicator** on the front panel. This light, in the shape of the Greek letter Ω , indicates the operating state during normal operation, as follows:

- **dark** = *standby*
- **blue (slow blink)** = *initialization/mute*
- **blue (continuous)** = *operate*

Various *fault* conditions are indicated as follows:

- **red/blue** = *line voltage out of range*
- **red (slow blink)** = *protection mode (DC, current or temp.)*
- **red (fast blink)** = *internal communication error*



Caution!

If the Ω indicator is blinking red, please disconnect the amplifier from the AC mains immediately and check that all external connections are cleanly made and secure. If no fault is immediately obvious, please call your authorized Classé dealer for assistance.

When in *standby*, the amplifier's gain stages are powered down. Only a small power supply and control circuit remain on, consuming relatively little power. Fortunately, since the output stages by their nature conduct a great deal of current, they warm up and sound their best very quickly.

If you are not going to use the amplifier for an extended period of time, perhaps while traveling for a vacation, we suggest you disconnect it from the AC mains. Please be certain that the amplifier is in *standby* prior to disconnecting it from the AC mains.

It is a good practice to disconnect any and all valuable electronics from the AC mains during electrical storms, as a lightning strike anywhere near your home can put a tremendous surge on the AC mains that will easily jump across a simple power switch.

Rear Panel

The following descriptions are intended as a quick reference, should you have any questions about your new product. Please see the next section, entitled *Initial Setup*, for specific advice on incorporating your new amplifier into your system.

1 SE Button

The **SE** button is used to configure the amplifier for *single-ended* operation. It is also used when configuring the turn-on delay and sequence number of the amplifier (for future Classé CAN Bus applications).

2 BAL Button

The **BAL** button is used to configure the amplifier for *balanced* operation. It is also used when configuring the turn-on delay and sequence number of the amplifier (for future Classé CAN Bus applications).

3 Status LED indicators

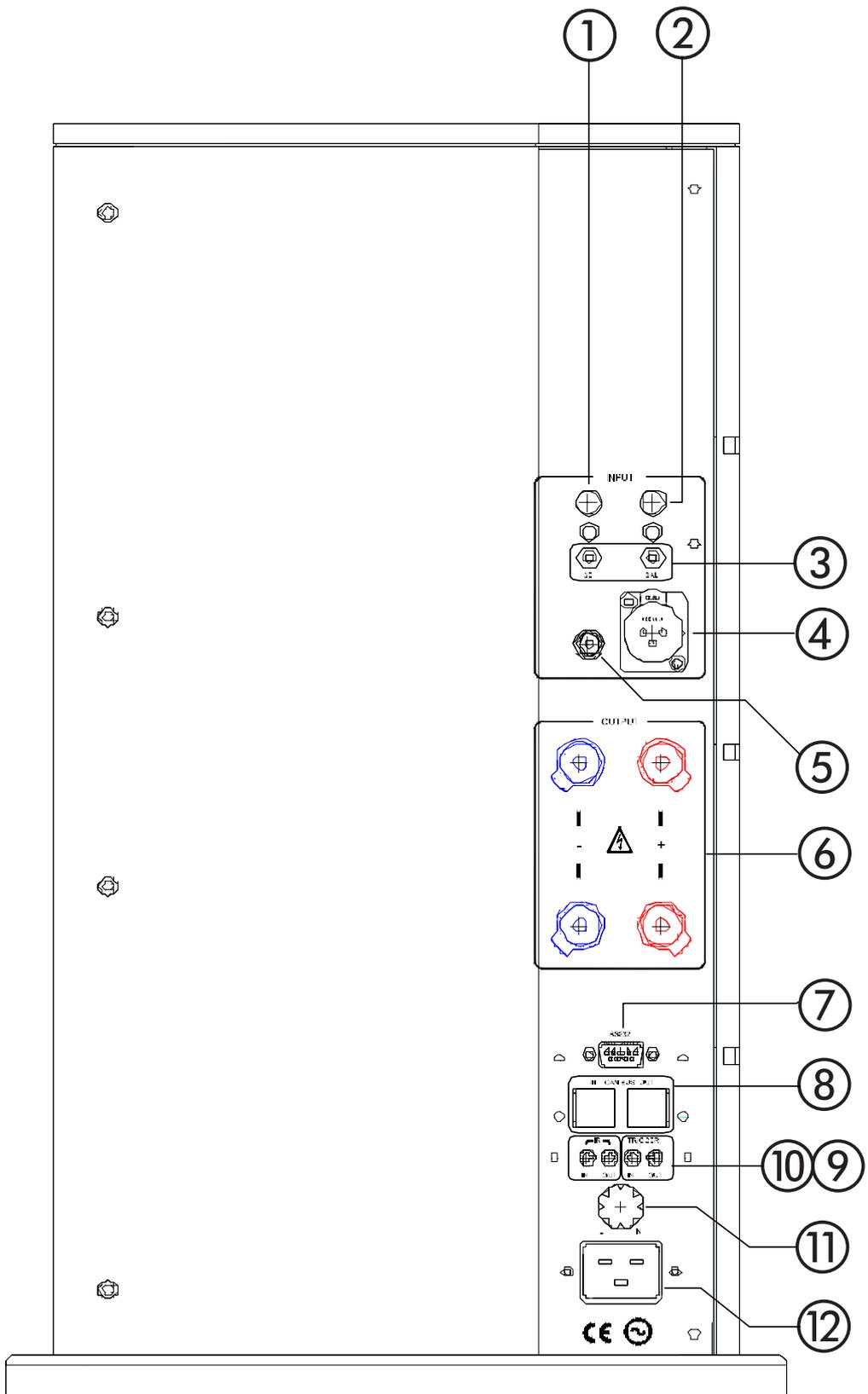
There are two **LED** indicators located just below the **SE** and **BAL** buttons, indicating the use of either the **balanced** (XLR) or the **single-ended** (RCA) input connector.

These indicators are also used to indicate certain fault conditions in your amplifier, should any ever arise.

4 Balanced (XLR) Input

Balanced audio interconnections were originally developed in the professional audio world, for preserving the delicate nuances of extremely small microphone-level signals. For many years now, they have also been used by performance-oriented consumer companies like Classé to preserve every nuance of the finest audio performances in your collection.

Essentially, balanced audio interconnections provide two distinct benefits: they double the signal's strength as it travels from one component to the next, increasing the potential signal-to-noise ratio by 6 dB; they also do an excellent job of rejecting noise and interference that might otherwise be picked up between the components, due to either EMI (electromagnetic interference) or RFI (radio frequency interference). In the world of wireless telecommunications, there is more potential interference around than ever before—it makes sense to keep it out of music and movie soundtracks. For this reason, we strongly recommend using the balanced analog interconnection between your Classé components wherever possible.



The pin assignments of this **XLR** input connector are:



Pin 1: Signal ground

Pin 2: Signal + (non-inverting)

Pin 3: Signal – (inverting)

Connector ground lug: chassis ground

These pin assignments are consistent with the standards adopted by the Audio Engineering Society.

If you are using your Classé amplifier with a Classé preamplifier, you're all set. Just buy a standard balanced interconnect and plug it in. Then engage that input on the power amplifier by configuring it as described in the section *Initial Setup*.

If you are using another brand of preamplifier, please refer to the operating manual of your balanced-output preamplifier to ascertain that the pin assignments of its output connectors correspond to those of your amplifier. If this is not the case, have your dealer wire the cables so that the appropriate output pin connects to the equivalent input pin.

5 Single-Ended (RCA) Input

Single-ended cables using **RCA** connectors are the most common form of analog connection used in consumer electronics. When implemented carefully and with use of high quality interconnecting cables, this standard can provide excellent performance. Classé has gone to extraordinary effort to ensure that the **single-ended** (RCA) input of your power amplifier is as good as possible. However, this connection standard cannot offer the immunity from interference that balanced interconnection does—hence our recommendation to use the balanced inputs when possible.

If you elect to use the single-ended input of your Classé power amplifier, you need to engage it by configuring the amplifier as described in the section *Initial Setup*.

6 Speaker Outputs

Two pairs of high-quality **five-way binding posts** are provided on the amplifier, in order to facilitate *bi-wiring*.

In practice, bi-wiring involves connecting two (preferably identical) sets of speaker cables between the amplifier and its loudspeaker. In many cases, the benefit is a subjectively improved level of clarity and detail from the speaker, as a result of being able to feed the two separate sections of its crossover and driver complement with identical yet separate signals.

(Many high quality loudspeakers also offer two sets of connections on their speakers. Generally, one set of the connections on the loudspeaker feeds the portion of the speaker's crossover network that supplies the woofer with its signal; the other set of connections connects to the portion of the crossover that supplies the rest of the speaker with the midrange and high frequencies.)

Although the binding posts on your Classé amplifier will accept bare wire connections, we strongly recommend the use of high quality spade or hook lugs, crimped and soldered onto the ends of your speaker wires. Using high quality connectors will ensure that your speaker connections do not gradually deteriorate from fraying and oxidizing bare wires. It also helps prevent accidental short-circuits from poorly-terminated connections.

7 RS-232 Control Port

This **DB-9 connector** has several uses:

- downloading new operating software into your amplifier (should new features ever be added, for example)
- external control by systems such as i-Command™, AMX™ and Crestron™

For more information, please contact your dealer and ask about home automation systems for Classé components.

8 Classé CAN Bus Control Ports

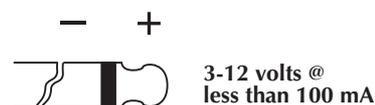
These **RJ-45** connectors are reserved for future control and communication applications using Classé Audio's implementation of the Controller Area Network (CAN) Bus specification.

9 DC Trigger Input and Output

Many audio/video preamplifiers can supply a DC control voltage to associated equipment in order to induce desired behavior. Your Classé amplifier can take advantage of these capabilities in order to be switched between *operate* and *standby* automatically, perhaps in concert with the A/V preamp itself.

Two 1/8th-inch **mini-jacks** provide this remote-controlled turn-on (that is, toggling between *operate* and *standby*) of the amplifier. These jacks provide a simple pass-through of the control voltage from one to the other, allowing you to “daisy-chain” a series of components quite easily.

The remote trigger will be operated by the presence of 5–12VDC, with tip polarity as shown below:



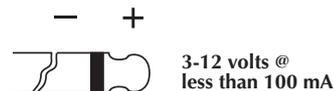
10 IR Input and Output

Your Classé amplifier includes two $\frac{1}{8}$ th-inch **mini-jacks** in order to support the IR (infrared) **remote controls** that are ubiquitous today. IR commands exist for toggling the amplifier between *operate* and *standby*, as well as discrete command codes for either operate or standby. These codes may be used in macros for sophisticated remote control systems, facilitating the control of the amplifier in the larger context of a complete system.

Actually, this *IR Input and Output* description is a bit of a misnomer: the input supplied to these plugs is *electrical* in nature, not IR. It is obtained by using standard IR receivers, distribution amplifiers, and emitters (available from your dealer) to translate the remote's flashes of infrared light into corresponding pulses of electricity. The big advantages here include being able to easily route the signals anywhere they might need to go, and the reliability of a solid electrical connection.

Since an IR distribution system such as your dealer may design for you usually must control many products, your amplifier includes both an IR input (for the control of this product) and an IR output (so as to pass along the same signal to the next product). This allows you to “daisy chain” your control wires from one product to the next.

The amplifier is designed to respond to IR commands of 5VDC, with the tip of the mini-plugs defined to be positive relative to the shank of the plug.



11 AC Mains Fuse

Your Classé Omega Mono power amplifier has an **AC mains fuse**, accessible on the rear panel. If you suspect that your AC fuse has blown, disconnect your amplifier from the AC mains, as well as from its input connections and speaker connections, and remove the fuse cover on the rear of the unit.

If the fuse appears to be blown, replace it only with the same type and rating of fuse. *Using any other type of fuse, particularly a larger-value fuse, can result in permanent damage to your amplifier.* If you are uncomfortable replacing the fuse yourself, contact your dealer for assistance.

After replacing the fuse and fuse cover, reconnect the amplifier to the AC mains and turn it on without reconnecting either the inputs or the speaker wires. If the fuse blows again, contact your Classé dealer for assistance.

If everything seems fine, place the amplifier back into standby and carefully reconnect the input cable and power the amplifier up. If the fuse then blows (or the amplifier goes into protection), you may have a serious fault with your preamplifier/processor. Contact your authorized Classé dealer.

Finally, if everything is still fine, place the amplifier in standby and carefully reconnect the speaker wires. Check *both* ends of the speaker wires for possible short circuits. Then power up the amplifier again. If the amplifier remains functional (the fuse does not blow), then the original fuse probably blew in order to protect the amplifier from a large AC mains surge. If it blows again, contact your dealer for assistance.

12 AC Mains Input

A high-current IEC standard power cord (supplied) is used with the Omega Mono. Plug the cord into the high-current **IEC receptacle** provided, and the other end into a suitable wall outlet.

Do not open your amplifier. There are no user-serviceable parts within this product.

Danger!



Potentially dangerous voltages and current capabilities exist within your power amplifier, even when it is disconnected from the AC mains. Do not attempt to open any portion of the amplifier's cabinet. There are no user-serviceable parts inside your power amplifier. All service of this product must be referred to an authorized Classé dealer or distributor.

Initial Setup

Your new Classé Omega Mono amplifier is quite simple to set up and enjoy. Please follow the steps outlined below in order to safely set up and use your new amplifier.



Important:

The AC mains connection should be the last connection you make on your new power amplifier. In addition, it is always a good idea to power up your power amplifiers last, after everything else has been powered up and has stabilized.

Conversely, it is good practice to power the amplifier(s) down first when shutting down the system, as this prevents any transients from other components from getting through to your loudspeakers.

1. **Unpack everything according to the included instructions.**

Be careful when doing so, as this amplifier is extremely heavy. Two people in good physical shape are required for this task.

2. **Place your amplifier (be sure to read the section *Unpacking and Placement*) and connect it to the AC mains.**

This includes deciding on the location, making sure you have adequate ventilation, and adequate clearance for all the wires behind the amplifier. Once accomplished, connect the amplifier directly to the AC mains. Do not use extension cords, as most are not suitable for the current required by your amplifier.

3. **Configure your amplifier.**

The **SE/select** and **BAL/mode** buttons on the rear panel are used when configuring your amplifier for how you would like it to operate.

configuring channels

While in *standby*, pressing the **SE/select** button will cause the **SE** LED to flash three times, indicating that the amplifier is configured for single-ended operation once the unit is taken out of *standby*.

Similarly, pressing the **BAL/mode** button will cause the **BAL** LED to flash three times, indicating that the amplifier is configured for balanced operation once the unit is taken out of *standby*.

Make sure you configure the amplifier to use the type of input connection you will be using.

In a system that contains multiple Classé amplifiers, you may set the number of seconds of turn-on delay for each amplifier, allowing them to turn on in the order you specified, rather than all at once. This number also acts as an ID when using the CAN Bus. *(Having several powerful amplifiers all turning on at the same time can sometimes stress the AC mains in your home, potentially leading to nuisance tripping of circuit breakers.)*

For example, to set the delay for two seconds (and to designate a particular amplifier as #2):

- place the amplifier in standby (**Ω indicator** off)
- press and hold the **BAL/mode** button until both LEDs are lit. When released, both LEDs will blink to indicate the current number of the amplifier (i.e. twice to indicate amplifier #2).
- if you want to change the current amplifier number setting, press and hold the **BAL/mode** button again until the LEDs are on.
- while continuing to hold the **BAL/mode** button, click the **SE/select** button the same number of times as the desired amplifier number.
- release the **BAL/mode** button. The amplifier will confirm your choice by blinking the LEDs the same number of times.

4. Make your preamplifier connections.

With the amplifier in standby or disconnected from the AC mains, and using the appropriate balanced or single-ended connections as chosen in Step 3, make the appropriate connections using high quality interconnect cables.

Make sure all the connections are snug, even if it means gently squeezing the outer shell of the RCA with pliers and reinserting it to tighten the connection.

5. Make your speaker connections.

Make the connection between the output terminals of the amplifier and your loudspeakers, using high quality speaker wires.

Connect the black (–) terminals on the amplifier to the black (–) terminals on your speaker, and the red (+) terminals on the amplifier to the red (+) terminals on your speaker. If bi-wiring, run a total of four conductors between each amplifier and its corresponding loudspeaker: two separate +/– leads, one pair for the bass and the other for the midrange and treble. Make sure that no wires cross between the red (+) and black (–) terminals at either end.

Make sure all the connections are snug and cannot be easily wiggled free, but do not overtighten them. If you can give the speaker wires a reasonable tug without there being any movement, they are snug. Further tightening will not make a better connection, and taken to the extreme may damage the connectors.

6. Double-check all your connections.

We understand that this step sounds redundant, but it is worth the extra minute or two it might take just to ensure that all connections are correct and secure.

7. Turn on all the other components in your system, and then turn on your amplifier.

It is always good practice to turn any power amplifier on last, and to turn it off first. Doing so prevents any turn-on/turn-off transients that might originate in other components from damaging your loudspeakers.

Troubleshooting

In general, refer any service problems to your authorized Classé dealer. Before contacting your dealer, however, please check to see if the problem is listed below. If it is, try the suggested solutions. If none of these solves the problem, contact your Classé dealer.

1. No sound, and the Ω indicator is not lit.

- The amplifier is not plugged into the AC mains, or the AC mains are down (check the circuit breaker or fuse).
- A brownout or short-term loss of power might require the internal microprocessor to be reset. Unplug the unit for at least 30 seconds and then plug it in again and try powering it up.
- The AC mains fuse is blown. See *Troubleshooting #4*, below (or contact your Classé dealer).
- The AC mains is out of range. Check the voltage specified on the rear panel.

2. No sound, and the Ω indicator is blinking blue.

- The amplifier has not completed its initialization and/or turn-on delay.
- The mute circuitry may have been turned on, using a remote control. Press the **Mute** key to toggle it.

3. No sound, and the Ω indicator is blinking red.

- Your protection circuitry may have been engaged. Disconnect the amplifier from the AC mains, and disconnect all inputs and outputs.
- Then try to power up the amplifier again, connecting it only to AC power. If the indicator continues to blink, there is a fault condition in the amplifier itself, and it should be disconnected and taken to your Classé dealer for service.
- If it powers up without any difficulty, power it back down and reconnect only the inputs. Then restart the amplifier. If it goes into its blinking protection mode, something is wrong with a component “upstream” from the amplifier – probably a DC offset or similar problem. Your amplifier is trying to protect your loudspeakers (even small amounts of DC can damage woofers in a relatively short time). Try different source components to discover whether the problem is limited to a single source, or exists all the time (which would indicate a problem with the preamplifier). Contact your dealer for help with the appropriate component.

4. The amplifier keeps shutting off.

- Make sure you are providing adequate ventilation to the amplifier, and that the ambient room temperature is below 105°F (40°C).
- Run through the troubleshooting sequence outlined above (assuming the amplifier is going into its protection mode).

5. The AC mains fuse is blown.

There is a specific troubleshooting procedure for a blown AC mains fuse, since this rare occurrence sometimes indicates a significant problem. Please use the following steps, in order:

- a. Disconnect your amplifier from the **AC mains**, as well as from its input connections and speaker connections. Remove the **fuse cover** at the rear of the unit.
- b. If the fuse appears to be blown, replace it only with a fuse of the same type and rating (specified below). *Using any other type of fuse, particularly a larger-value fuse, can result in permanent damage to your amplifier.* If you are uncomfortable replacing the fuse yourself, contact your Classé dealer for assistance.

| | |
|----------------|---------------|
| Mains voltage: | 100/120VAC |
| Fuse type: | MDA slow-blow |
| Rating: | 15A |

| | |
|----------------|---------------|
| Mains voltage: | 230/240VAC |
| Fuse type: | MDA slow-blow |
| Rating: | 12A |

- c. After replacing the fuse and fuse cover, reconnect the amplifier to the AC mains *only* and turn it on *without reconnecting either the inputs or the speaker wires*. If the fuse blows again, disconnect it from the AC mains and contact your Classé dealer for assistance.
- d. If everything seems fine, place the amplifier back into *standby* and carefully reconnect the input cable and power the amplifier up. If the fuse then blows (or the amplifier goes into protection), you may have a serious fault with your preamplifier/processor. Contact your Classé dealer.
- e. Finally, if everything is still fine, place the amplifier in *standby* and carefully reconnect the speaker wires. Check *both* ends of the speaker wires for possible short circuits. Then power up the amplifier again. If the amplifier remains functional (the fuse does not blow), then the original fuse probably blew in order to protect the amplifier from a large AC mains surge. If it blows again, contact your Classé dealer for assistance.

Care and Maintenance

To remove dust from the cabinet of your amplifier, use a feather duster or a soft, lint-free cloth. To remove dirt and fingerprints, we recommend isopropyl alcohol and a soft cloth. Dampen the cloth with alcohol first and then lightly clean the surface of the amplifier with the cloth. Do not use excessive amounts of alcohol that might drip off the cloth and into the amplifier.



Caution!

At no time should liquid cleaners be applied directly to the amplifier, as direct application of liquids may result in damage to electronic components within the unit.

Specifications

Classé Audio reserves the right to make improvements without notice.

| | |
|---|---|
| ■ Power output | 600W continuous rms @ 8Ω 1200W continuous rms @ 4Ω |
| ■ Frequency response | 10Hz – 22kHz (+0/-0.1dB) 10Hz – 155kHz (+0/-3.0dB) |
| ■ Phase | less than -10° @ 22kHz |
| ■ Signal-to-noise ratio | better than 106dB (<i>ref. full output, 10Hz – 80kHz</i>) |
| ■ Noise floor (FFT) | all peaks under 95dBV (<i>10Hz – 80kHz</i>) |
| ■ Distortion (THD + noise) | 0.004% @ 8Ω (<i>unweighted, 1.0Vrms/1kHz input, 10Hz – 500kHz</i>) |
| ■ Voltage gain | 29.1dB |
| ■ Sensitivity | 2.25V _{rms} for rated output @ 8Ω |
| ■ Input Impedance | 75kΩ |
| ■ Output Impedance | 50mΩ |
| ■ Rated power consumption (<i>as per IEC60065 para. 2.3.10</i>) | 708W |
| ■ Idle power consumption | 240W |
| ■ Mains voltage | specified on rear panel (<i>cannot be changed by user or dealer</i>) |
| ■ Overall Dimensions | Width: 11.5”(292mm) Height: 19.5”(495mm) Depth: 23.75”(603mm) |
| ■ Shipping case dimensions | Width: 17.0”(432mm) Height: 24.5”(622mm) Depth: 29.5”(749mm) |
| ■ Shipping weight | 224lbs (102kg) |
| ■ Net weight | 192lbs (87kg) |

For more information, see your Classé dealer, or contact:

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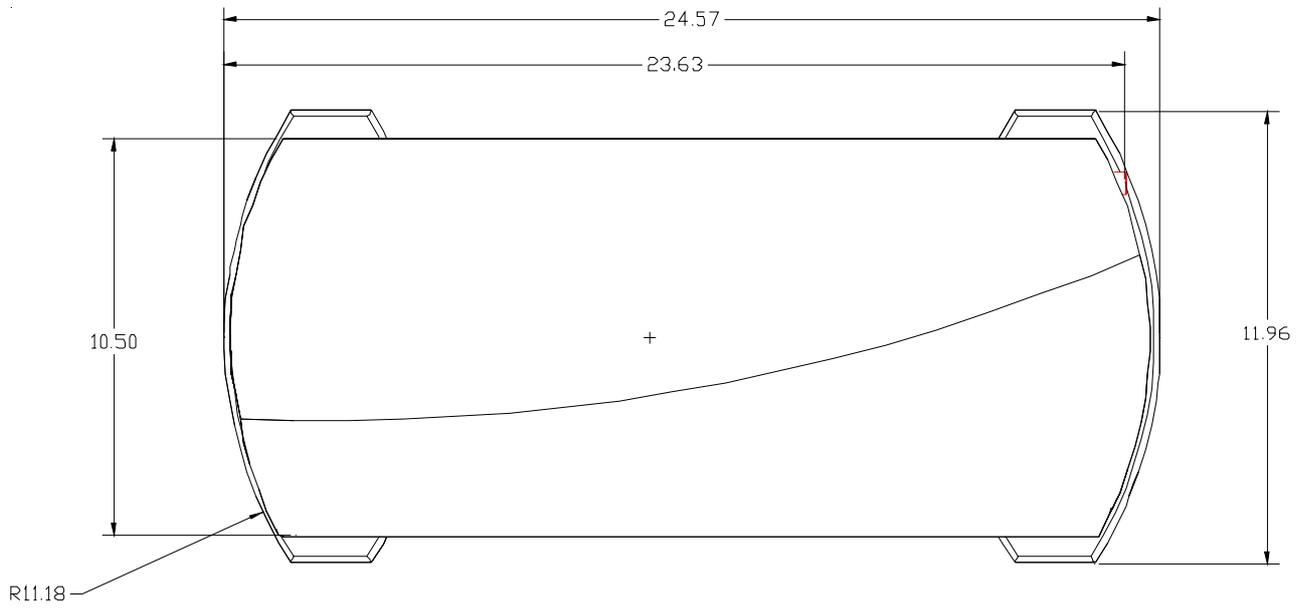
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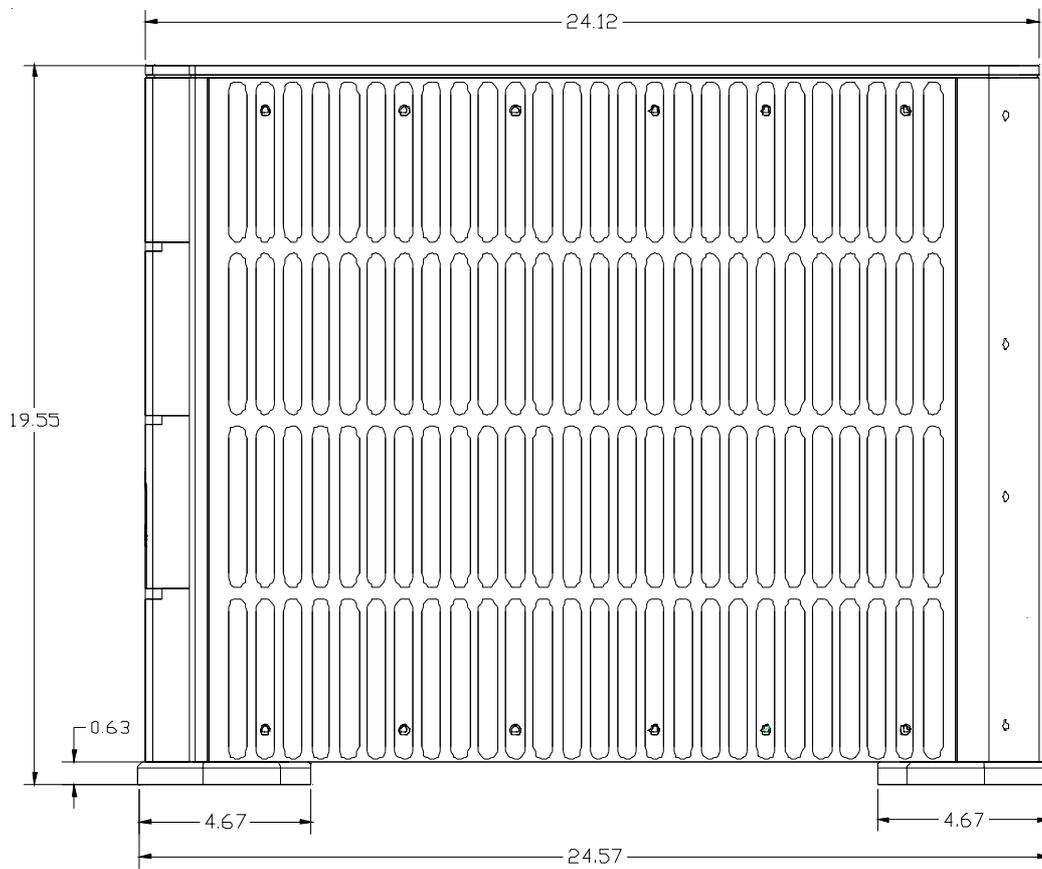
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Dimensions



(all dimensions are in inches)



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