MOMENTUM Z
Monoblock Amplifier

DAN D'AGOSTINO
MASTER AUDIO SYSTEMS

15TH ANNIVERSARY

The year 2025 marked the fifteenth anniversary of the founding of Dan D'Agostino Master Audio Systems. It was in December 2010 that Petra and Dan D'Agostino incorporated the business, showing the company's first product—the Momentum Monoblock Amplifiers—at CES in January 2011.

Dan, assisted by Petra's son, Alexander, had just built the first four units in time for the launch, while Petra's daughters Adrienne and Austyn were hostesses at the grand debut. By February, the first customer units were shipped, critical acclaim soon followed, and there was no turning back.

Fifteen years later, Momentum components are esteemed by industry professionals, reviewers and customers as among the finest audio electronics in the world. Surely, that first amplifier charted the course of a Momentum legacy that today has expanded to include the Relentless, Progression and Pendulum series, with new products continuously in development. Each of these, like the spectacular Momentum Z Monoblock Amplifier, is infused with unique DNA that sets every Dan D'Agostino Master Audio Systems design apart.

—Petra and Dan D'Agostino, Founders

Thank you very much for purchasing the Momentum Z Monoblock Amplifier. Introduced in celebration of the company's fifteenth anniversary, this amplifier marks the next stage in Dan D'Agostino Master Audio Systems' relentless pursuit of musical perfection.

Born from the same design philosophy that made the original Momentum series a benchmark in high-end amplification, the Z generation advances every aspect of the platform. Its unique power supply technology, the Kinetic Drive Regulator, keeps the amplifier immune to AC mains irregularities and the speaker interaction issues that commonly degrade the performance of conventional amplifier designs. Along with this proprietary innovation, every element of the Momentum Z has been reimagined—including an enhanced power supply, output stage, and refined thermal architecture—to deliver effortless dynamics, extraordinary transparency, and lifelike musical scale.

The Momentum Z Monoblock Amplifier embodies the essence of Dan D'Agostino's design legacy—combining technical mastery with timeless aesthetics in a new, precision-machined enclosure that expresses power and beauty in perfect balance.

The sculpted chassis of the Momentum Z, crafted from solid aluminum and copper, not only ensures superior heat dissipation and mechanical stability, but also stands as a work of art in itself.

The Momentum Z also introduces a new dimension of connectivity and insight. It is the first D'Agostino power amplifier equipped with an Ethernet port, enabling advanced monitoring and reporting of key performance parameters, allowing owners and technicians alike to view operational data and system status in real time.

With unprecedented control over the most demanding loudspeakers and an unshakable commitment to musical integrity, the Momentum Z Monoblock Amplifier defines what is possible when innovation, craftsmanship, and passion converge. It is the culmination of decades of experience, precision engineering, and an unrelenting drive to bring listeners closer to the heart of the music.

Sincerely,

The Dan D'Agostino
Master Audio Systems Team

"The Momentum Z Monoblock Amplifier embodies the essence of Dan D'Agostino's design legacy, combining technical mastery with timeless aesthetics."

Legal Notifications

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CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
NO USER SERVICEABLE PARTS INSIDE
Do not open the component's chassis or remove any of its screws. Contact DDMAS or the dealer if you have service needs.

WARNING: Do not expose this product to moisture or excessive humidity, and do not use it outdoors. Fire hazard may result.

The lightning flash with arrowhead, 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 electrical shock to persons.

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

Package Contents

1 **Momentum Z Monoblock Amplifier in protective packaging**

1 **AC power cord**

1 **Owner's manual**

1 **Microfiber cloth**

Please contact the authorized retailer if any items above are missing.

Unpacking & Installation

Removing the component from its packaging

While the Momentum Z Monoblock Amplifier is still in its case, move it to a location near the place where it will be installed. Remove all jewelry including watches, rings, and belts from your person to avoid damage to the exterior of the component during unpacking and installation. The finish of the Momentum Z Monoblock Amplifier is durable but can be damaged. To protect its pristine surface, we suggest careful handling to avoid abrasion, fingerprints caused by oils from skin, etc. See Maintenance section (page 11) for instructions on cleaning.

Installation requirements

This component's metal chassis makes it heavier than many other amplifiers, so make sure the surface that will support it can safely hold its weight.

Adequate ventilation must be provided for the unit. There should be at least three inches of clearance above the top. The bottom vents must not be obstructed. We recommend that the unit be installed in an open space to assure proper ventilation. It may be installed in a closed cabinet or equipment closet, but the space must be designed with substantial ventilation at top and bottom; active ventilation (i.e., powered fans) is preferred. Do not place the unit directly on a carpeted floor.

If plugging the Momentum Z Monoblock Amplifier into a power strip or power conditioner, make sure it is a high-quality unit that does not alter ground connections or insert current-limiting elements in series with the AC mains signal.

Returning the component for service

Should the Momentum Z Monoblock Amplifier need to be returned for service, use the original case and packing materials. To protect the finish during shipping, re-wrap the component in the protective packaging in which it was originally shipped. Make sure the unit has cooled down for at least two hours. Wrapping the unit when it is warm will cause the plastic wrapping to leach into the component's surface and will permanently damage the finish.

Front Panel

1 Heat sink venturis

2 Top panel vents

3 Power meter

4 Power button

Rear Panel

1 Power switch
2 IEC AC power connector
3 12-volt trigger input
4 12-volt trigger output

5 RJ45 Ethernet input
6 Speaker cable binding posts
7 XLR audio input
8 Serial number

Making Connections to the Momentum Z Monoblock Amplifier

Speaker cables

Install the speaker cables first. We recommend the use of high-quality cables terminated with spade or ring lugs that will fit the binding posts of the Momentum Z Monoblock Amplifier. This binding post is not designed for use with banana plugs or pin connectors, and the use of bare-wire connections is not advised.

Note that the positive and negative binding posts are indicated by plus (+) and minus (-) symbols engraved to the left and right of OUTPUT. Double check to confirm that you are connecting your speaker cable's conductors to the appropriate binding posts—red to positive, black to negative. If your cables are marked to show desired signal flow, orient the cable so that the installation conforms to the instructions of the cable manufacturer.

To install speaker cables tipped with spade lugs or rings, carefully loosen each speaker binding post. Turn counterclockwise to loosen. If using spade lugs, insert each spade lug so that its two tines straddle the binding post, then tighten the binding post nut. If using rings, remove the binding post nut, place the ring on the binding post, then replace the nut and tighten it securely.

A firm connection, tight enough that the spade lug or ring cannot move, is all that's needed. Overtightening could damage the binding posts. Do not use a conventional wrench to tighten the binding posts. Be sure the wires are not in contact with one another.

Interconnect cables

We recommend the use of a high-quality balanced XLR audio interconnect cable with the Momentum Z Monoblock Amplifier. If your preamplifier does not offer XLR outputs, use a high-quality RCA-to-XLR adapter.

Connect the XLR cable to the XLR input by pushing the cable onto the jack. To release the XLR cable, push on the small tab on the end of the jack, then grasp the cable by the plug and gently pull it out. Never grasp the interconnect cable by the cable itself, as the cable could be damaged.

12-volt trigger on/off input and output

The input allows you to turn the Momentum Z Amplifier on or to standby from other components. The output sends 12 VDC (12 V trigger) power on/off signals to other Dan D'Agostino Master Audio Systems components or other devices that incorporate a 12 V trigger input. Mono 3.5 mm connectors are used in the following configuration: Tip = +12 V, Sleeve = GND.

Note: When the Momentum Z Monoblock Amplifier is in operational mode, the 12 V trigger provides 12 volts of DC output. When the amplifier is in standby mode or off, the DC output is 0 volts. A maximum of 500 mA is available from the 12 V trigger output. Consult the owner's manual of the components used in the system to take full advantage of the remote capabilities of the amplifier.

AC cord

The Momentum Z Monoblock Amplifier is supplied with a high-quality AC cord tipped with a 15-amp IEC connector at the amplifier end and a three-conductor AC plug at the other end. You may use a different power cord with the amplifier if you wish, as long as it is tipped with a 15-amp IEC connector and a three-conductors AC plug. After the speaker and interconnect cables are connected, push the IEC connector on the power cord into the IEC jack on the amplifier. The Momentum Z Monoblock Amplifier has no user accessible fuse.

Router connection

With an integrated RJ45 Ethernet connection, the Momentum Z Monoblock Amplifier allows full access to its performance and service parameters across a home network. To access this information, connect an Ethernet cable from the RJ45 Ethernet jack on the rear of the unit to one of the outputs of the router, network switch, or an access point, depending on the installation.

Through any web browser, type **MomentumZ-XXXX.local** where **XXXX** is the four numerals of the unit's serial number, into the address bar. The amplifier's dashboard will display either a green check mark or a red X for line voltage, rail voltage, rail current, regulator voltage, temperature, bias, and DC level. A green check mark indicates proper operation, while a red X indicates a potential issue. If a red X appears, contact an authorized DDMAS dealer or distributor. The amplifier power-up sequence is shown below:

Operation

Initial power-up of the Momentum Z Monoblock Amplifier

The toggle switch located on the rear of the amplifier must be in the up position to supply AC to the unit. The power button is located to the right of the meter on the front underside edge of the amplifier. Pressing the button will power up the amplifier and illuminate the meter.

After power is switched on, the Momentum Z Monoblock Amplifier requires approximately 30 minutes to reach optimal operating temperature. Although the amplifier will sound excellent upon initial listening, the sound quality will improve as it warms up, much as the flavor of a fine red wine improves if it is allowed to breathe for a period of time.

During operation

The Momentum Z Monoblock Amplifier does not require any adjustments during normal operation. If there is no sound or the sound quality is in some way impaired, consult the "Troubleshooting" section.

Dark Mode

When Dark Mode is activated, the meter display is turned off. By default, Dark Mode is disabled, keeping the display illuminated during normal operation. To enable Dark Mode, click on Disabled to switch the setting to Enabled. The meter display will turn off immediately.

When enabled, Dark Mode remains active after the amplifier is placed in Standby and subsequently returned to full power. Upon power-up from standby, the display will complete its normal startup sequence, remain illuminated for approximately 10 seconds, and then turn off automatically.

If the main power breaker is switched off or the amplifier experiences a total power loss, Dark Mode will reset to Disabled.

Meter display brightness

The default meter display brightness is 100%, and it can be adjusted within a range of 20% to 100%. To change the brightness, click on the current value and either enter a specific number or use the – and + buttons to select the desired level. The meter display brightness will update in real time as adjustments are made.

The selected brightness level will remain active even if AC power to the amplifier is interrupted.

Maintenance

The Momentum Z Monoblock Amplifier requires no user maintenance. When cleaning, spray a small amount of distilled water onto a microfiber cloth and wipe along the direction of the metal grain with light pressure. Never use a circular motion, as this can scratch the surface. Do not use a dry cloth, and do not spray liquid onto the component.

Troubleshooting

If any issues with operation, sound, or functionality arise, set the unit to standby, then unplug and re-plug the power cord into the IEC power socket. Return to full power by pressing the Standby button. If this reset procedure does not resolve the problem, contact an authorized Dan D'Agostino Master Audio Systems retailer or distributor.

Contact Us

For questions about this component, product warranty, or other service matters, please reach out to us at:

480.575.3069

service@dandagostino.com

Specifications

Power Output: 500 W @ 8 Ω / 1,000 W @ 4 Ω / 2,000 W @ 2 Ω

Frequency Response: 1 Hz to 200 kHz, -1 dB / 20 Hz to 20 kHz, +0.1 dB

Signal-to-Noise Ratio: >75 dB, A-weighted / >115 dB, unweighted

Gain: 27 dB

Distortion: 0.02% @ 1 kHz, 500 watts @ 8 Ω

Input Impedance: 1 M Ω (standard input setting) / 300 Ω (Z input setting)

Output Impedance: <0.05 Ω, 20 Hz to 20 kHz

Output Voltage: 190 V peak-to-peak

Output Current: 60 A peak-to-peak

Power Consumption: Standby 17 W / Idle 35 W / Maximum 3,200 W

Input: 1 balanced XLR

Outputs: 1 pair binding posts

Dimensions: (W x H x D) 13.5 x 5 x 20.5 in / 32 x 13 x 54 cm

Weight: 100 lb / 45 kg

Finish: Silver or Black

Specifications subject to change.

Limited Warranty

Dan D'Agostino Master Audio Systems, LLC (DDMAS) warrants the Momentum Z Monoblock Amplifier against manufacturing defects and defects in materials for three years from the date of purchase from an authorized Dan D'Agostino Master Audio Systems retailer, or four years from the original ship date, subject to the conditions listed below:

1. Warranty covers only new products purchased from an authorized DDMAS dealer.

2. Warranty is non-transferable and is valid only for the original purchaser.

3. Warranty is valid only if the product has been used according to the instructions in the owner's manual. Damage due to accidents, owner abuse, or neglect is not covered under this warranty.

4. All service must be performed by an authorized DDMAS dealer. Damage resulting from service by other parties is not covered under this warranty.

5. Products returned for service must be packaged in the original container and must include a photocopy of the original purchase receipt. If the original packaging is missing, contact DDMAS for a replacement.

6. If the product must be shipped back to DDMAS for warranty service, the customer shall pay shipping costs. DDMAS will pay for return shipping.

7. Before shipping the product to DDMAS for service, the customer must first obtain a Return Authorization (RA) number by calling DDMAS. The RA number must be marked clearly on the outside of the package.

8. Warranty covers only defects in products made by DDMAS. It does not cover incidental or consequential damages, or damages to other products resulting from defects in DDMAS products.

9. U.S. residents: Depending on the state in which you live, you may have other rights not covered in this document. For further information, contact DDMAS.

10. Residents of other countries: The authorized importer or dealer bears direct responsibility for warranty coverage of the product. Please contact the importer or dealer with requests for service under warranty. DDMAS will work with the importer or dealer to ensure that the terms of the warranty are fulfilled.

Together,
musical connections.

Please take a moment to tell us you have received your
new component and ensure we have your preferred contact
information. Scan the code below to provide your email address
so that we may keep you apprised of our latest innovations.

Technical Updates

The most current version of this user manual is available to download at the link below.

SCAN THE QR CODE

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Our products are designed and built by hand in the U.S.A.