SAFETY PRECAUTIONS
READ THIS SECTION CAREFULLY BEFORE PROCEEDING!

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle warns users of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE THE FUSE ONLY WITH THE SAME AMPERAGE AND VOLTAGE TYPE. REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL.

WARNING: UNIT MAY BECOME HOT. ALWAYS PROVIDE ADEQUATE VENTILATION TO ALLOW FOR COOLING. DO NOT PLACE NEAR A HEAT SOURCE, OR IN SPACES THAT CAN RESTRICT VENTILATION.

The lightning flash with arrowpoint within an equilateral triangle warns of the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE, AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

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

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) 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. When 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 the attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. 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.
**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Avoid installing this unit where foreign objects may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:

- Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
- Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Do not install this equipment in a confined space such as a case or similar. Install it away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.

Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

Install this unit near the AC outlet and where the AC power plug can be reached easily.

This unit is not disconnected from the AC power source as long as the Main Power Switch on the rear panel is ON. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

**NOTE:** This product is not an auto voltage Receiver. Connect only to the prescribed AC outlet, i.e., 120V 60Hz or 230V 50Hz.

**CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions, unless you are qualified to do so.

**CAUTION:** Changes or modifications to this equipment not expressly approved by Paradigm Electronics for compliance could void the user’s authority to operate this equipment.

**FCC WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.
IMPORTANT INFORMATION FOR UK CUSTOMERS: DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer. If, nonetheless, the mains plug is cut off, REMOVE THE FUSE and dispose of the PLUG immediately, to avoid possible shock hazard by inadvertent connection to the mains supply. If this product is not provided with a mains plug, or one has to be fitted, then follow the instructions given below:

IMPORTANT: DO NOT make any connection to the larger terminal which is marked with the letter “E” or by the safety earth symbol or colored GREEN or GREEN AND YELLOW.

The wires in the mains lead on this product are colored in accordance with the following code:

BLUE – NEUTRAL
BROWN – LIVE

As these colors may not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

The BLUE wire must be connected to the terminal marked with the letter “N” or colored BLACK.

The BROWN wire must be connected to the terminal marked with the letter “L” or colored RED.

When replacing the fuse, only a correctly rated and approved type should be used, and be sure to re-fit the fuse cover.

If in doubt consult a competent electrician.
NOTES ON ENVIRONMENTAL PROTECTION

At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user’s manual and packaging, point this out. The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials or other forms of recycling of old products, you are making an important contribution to the protection of our environment. Your local administrative office can advise you of the responsible waste disposal point.

Anthem and any related party assume no liability for the user’s failure to comply with any requirements.

RECYCLING AND REUSE GUIDELINES (Europe)

In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which, upon disposal, require special reuse and recycling processing. For this reason Paradigm Electronics Inc. (the manufacturer of Paradigm speakers and Anthem electronic products) has arranged with its distributors in European Union member nations to collect and recycle this product at no cost to you. To find your local distributor please contact the dealer from whom you purchased this product or go to our website at www.paradigm.com.

Please note that only the product falls under the WEEE directive. When disposing of packaging and other shipping material we encourage you to recycle through the normal channels.

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Thank you for purchasing Anthem Statement M1 Power Amplifier.

All Anthem products are engineered to recreate the passion of a live musical performance and emotional involvement experienced in the best movie theaters by utilizing the highest level of circuit design, superior parts and manufacturing techniques, innovative features, and intuitive ergonomics. We are confident that their inclusion in your system will significantly enhance your enjoyment of recordings for years to come.

The M1 is a 1-channel Class D power amplifier producing one kilowatt output into eight ohms, and greater than two kilowatts into four ohms and lower. Its unique proprietary design avoids the limitations and transgressions common to other Class D amplifiers. For example, the M1’s frequency response is unaffected by output level or speaker load.

By implementing the design at an extremely high level the M1 is stable into all loudspeaker loads without resorting to digital conversion of the signal or any kind of equalization to compensate for load dependency.

The M1 was designed completely in-house with the goal of highest sound quality at all levels ranging from the smallest nuances to the most dynamic peaks while utilizing Class D’s advantages of efficiency, low heat generation, size, weight, and high output.

When rack-mounted the M1 occupies only one rack space. Its heat pipe cooling system allows multiple units to be mounted directly above one another, and by not utilizing a cooling fan the mechanically silent M1 is equally suitable for installation in the quietest listening rooms.
1.1 BEFORE MAKING CONNECTIONS

Check that you have received everything on the packing list and report discrepancies to your dealer as soon as possible. **Retain the packing materials and the invoice that you received from your authorized Anthem dealer at time of purchase – without it, service will not be provided under warranty.**

Packing List:

- Amplifier
- Operating manual
- Rack-mount handles (2)
- Power cord (North America only)

Safety Instructions:

- Read all safety precautions and instructions at the beginning of this manual.
- This product is for professional use only due to its ability to put out 90 volts at the output terminals, and installation must be carried out by a certified installer.
- Do not connect power if there are any signs of damage to any part of the exterior.
- The front panel power button does not disconnect the product from the AC line. Ensure that the power cord remains readily accessible at all times.
- To connect power, only use the supplied double-insulated power cord.
- Allow adequate ventilation to ensure reliable operation and to prevent overheating. The amount of space required above the unit for radiation depends on ambient air temperature and circulation. Installation inside a cabinet with a front that can be closed is not recommended unless a fan is also installed to adequately draw air away from the top of the unit.
1. INTRODUCTION (continued)

- Failing to comply with any safety instruction, precaution, or warning in this manual is in violation of the intended use of the product.
- Anthem and any related party assume no liability for the user’s failure to comply with requirements.

1.2 IN-USE NOTICES

- Disconnect the power cord before connecting or disconnecting any components.
- If the product was transported or stored in the cold, let it warm to room temperature before use.
- Do not remove the top cover.
- Do not modify the product.

1.3 RACK-MOUNTING NOTES

- A Torx T15 screwdriver is needed to replace standard handles with rack-mount type. To unfasten a handle, remove the three screws holding it to the side of the chassis.
- To remove feet use a Torx T20 screwdriver. Do not remove the silicone pads from the chassis. These are exposed once feet are removed. Their purpose is to allow one M1 to easily slide on another when rackmounting or unmounting, preventing metal-to-metal contact that can ruin the finish.
- Where multiple M1 amplifiers will be stacked on one another for a multichannel installation it is recommended, though not required, that the three front channel amplifiers be separated by surround channel amplifiers to distribute heat more evenly. Since the center channel generates the most heat in a typical theater system, installing it at the top of the stack is also recommended.
- If it is expected that any number of adjacent M1 amplifiers will operate at just below clipping level (i.e. full output) continuously for more than one hour then it is recommended that they be separated with some rack space, not stacked directly on one another.
2. CONNECTIONS AND OPERATION

2.1 INPUT CONNECTIONS

Balanced XLR connection offers the highest transmission quality, particularly over long cable lengths, because it rejects noise and hum pickup. If using the XLR input, set the input switch to the 0 dB position if your preamplifier’s XLR outputs are at normal line level, or to the -6 dB position if your preamplifier’s XLR outputs are at 2x line level. If your preamplifier does not have XLR outputs, use the RCA inputs.

Do not use “RCA-compatible” connectors that have a hollow center pin with a hole at its tip. They can damage the amplifier’s RCA jack internally while being inserted.

2.2 SPEAKER CONNECTIONS

 Depending on the level of the input signal, the voltage at the outputs can be high enough to cause electric shock – be sure that power is turned off when connecting or disconnecting anything. As well, be sure that the speakers are rated for use with this amplifier – an overdriven speaker can pose a fire hazard.

Connect the red (+) connection on the speaker to the red (+) binding post on the amplifier, and the black (–) connection on the speaker to the black (–) binding post on the amplifier using cable that is insulated to handle the maximum output of the amplifier. Do not overtighten the binding posts as this may cause damage. The binding post pair accepts a connection from one speaker.

Both output terminals are active. The black (–) terminal is not grounded. Neither terminal should be connected to a chassis or ground.
2. CONNECTIONS AND OPERATION (continued)

2.3 ON MODES

With the three-way switch located on the rear panel, you can set the way the amplifier is turned on and off. To use Trigger-On, connect a standard 3.5mm (.125") mono mini plug cable between the amplifier and the preamplifier or control component. Once all other connections are made, connect the power cord to the amplifier and then the wall outlet.

**Manual-On:**

When in this position, the amplifier is turned on/off via the power button on the front panel.

**Trigger-On:**

This feature allows the amplifier to be turned on or off remotely via the trigger. The 3.5mm (.125") mini-jack IN receives power (5-24 volts DC) from an upstream component or system controller. The same trigger signal can be linked to trigger inputs on other units through the OUT jack. When using Trigger mode, leave the front power button in the “on” position.

**Auto-On:**

This feature also eliminates the need to manually operate the power button. Auto-On turns the amplifier on when it senses an input signal, and switches off 20 minutes after input signal stops. The power button on the front panel must be left “on”.
2. CONNECTIONS AND OPERATION (continued)

2.4 FRONT AND REAR PANELS

1. Handles (rackmounts provided in accessory box)
2. Power LED
3. Status LED
4. Power button
2. CONNECTIONS AND OPERATION (continued)

2.4 FRONT AND REAR PANELS (continued)

5 Circuit breaker
6 Power cord inlet (IEC C18 type)
7 Trigger input and output
8 On-mode (trigger / manual / auto)
9 RCA input
10 XLR -6 dB switch
11 XLR input
12 Binding posts
3. LED INDICATION CODES

Power LED:
This is on when the amplifier is operating normally and off at all other times.

Status LED:
Normal brightness indicates operate mode.

If the M1 detects a problem, the amplifier output will turn off for 12 seconds* and the LED will flash a number of times, pause for 2 seconds, and repeat the flash cycle to allow the user to count the number of flashes per cycle before the power button is pressed twice. The AC supply voltage code does not continue to flash once normal voltage returns. Output will be interrupted for only 3 seconds if music is playing while the LED is flashing and the switch is pressed quickly two times.

In the event that operation resumes and a second type of fault occurs, the code for the last fault is displayed.

*In an over-temperature condition the temperature must drop by 4 degrees Celsius before output resumes. This could take a few minutes depending on ambient temperature.

2 flashes: AC supply voltage out of range. If the amplifier is powered from a 240V line, it is likely due to line voltage exceeding 264V.

If the amplifier is powered from a 120V line, it is likely due to low line voltage. This can happen as a combination of very loud musical passages and marginal line voltage, or the outlet may be far from the distribution panel resulting in excessive line losses. Disconnect other equipment from the circuit or use a different one. Do not use long extension cords. If none of the above helps, the line voltage in your area may be too low and a 240V outlet may be needed (contact a licensed electrician).

3 or 5 flashes: Output current exceeds limit. This can happen if output is very high into a load impedance of less than 2 ohms, or if the speaker wires are forming a short-circuit. Verify that the speaker wires are not frayed or touching anything except the amplifier output terminal and speaker input terminal.
3. LED INDICATION CODES (continued)

4 flashes: Temperature exceeds limit. Make sure there is adequate ventilation. The amp will resume operation only once internal temperature drops within acceptable range (4 degrees Celsius less than fault).

6 flashes: Average input current exceeds limit. This fault is activated to avoid nuisance AC input interruption. This condition can occur if two or more speakers are connected in parallel. The amplifier should be connected to a dedicated circuit. Disconnect other equipment from the circuit, or use a different one, or reduce volume, or use a 240V circuit.

7 flashes: Ground fault. One of the two speaker wires is touching another conductor or something made of metal. Inspect wires and connectors and make sure they do not touch other wires or amplifier chassis or any piece of metal.

8 flashes: DC output voltage exceeds limit. May result from excessive content below 10 Hz or excessive DC offset from the source connected to the amplifier’s input. To check for the latter, unplug the source while it’s playing and observe whether fault condition stops.

9 flashes: Amplifier rail voltage out of range. This can happen under high load using a 120V line. Try a 240V line or lower volume.

10 or 11 flashes: Unlikely to occur when properly installed although can happen under excessive clipping. Lower volume and if error reappears contact technical support.

There are no fuses in the power path. If a severe overcurrent condition occurs the AC line breaker on the rear panel will trip. To reset, push it back in.
**SPECIFICATIONS**

**Power Output** continuous, 20 Hz to 20 kHz, <0.1% THD+N

- 8 Ω .................................................................................................................................................................................................................. 1000 W

With 120V AC supply the amplifier’s maximum output into impedances 4 Ω and lower, as well as its maximum duration, vary depending on line voltage regulation.

**Frequency Response** 20 Hz to 20 kHz

- open circuit ........................................................................................................................................................................................................... +/- 0.1 dB
- 8 Ω ............................................................................................................................................................................................................... +/- 0.1 dB

**Power Bandwidth** 1000 W at 8 Ω ....................................................................................................................................................................................................... 5 Hz to 45 kHz

**THD+N at 1 kHz, 8 Ω**

- 1 W ............................................................................................................................................................................................................. 0.01 %
- 10 W ......................................................................................................................................................................................................... 0.01 %
- 100 W ..................................................................................................................................................................................................... <0.03 %
- 1000 W .................................................................................................................................................................................................. <0.06 %

**IMD** 19 kHz + 20 kHz, CCIF ...................................................................................................................................................................................................... 0.003 %

**S/N Ratio** ref. 1000 W, IEC-A .................................................................................................................................................................................................. 113 dB
SPECIFICATIONS (continued)

Voltage Gain ................................................................. 29 dB

Input Sensitivity ....................................................... 100 mV for 1 W output, 3.2 V for 1000 W output (8 Ω)

Input Impedance ....................................................... 10 kΩ (RCA), 20 kΩ (XLR)

Damping Factor ......................................................... 800 to 1400 depending on frequency

XLR Configuration ..................................................... Pin 1: Ground, Pin 2: Positive, Pin 3: Negative

POWER REQUIREMENT

Consumption in a typical music/theater installation
standby mode, 120V mains ........................................... <1 W
standby mode, 240V mains ......................................... <2 W
operate mode, idle ..................................................... 33 W
typical operation .................................................... 300 W
Where mains voltage is 120V, one dedicated 15A circuit per amplifier is recommended depending on speaker. A 20A circuit is adequate for two amplifiers playing music where speaker impedance is $8\,\Omega$.

This product operates from a single phase AC power source that supplies between 108V and 264V at a frequency of 50 or 60 Hz.

**DIMENSIONS**

| Height          | with feet: 2 1/4 inches (5.7 cm)                  |
|                | without feet: 1 rack unit                         |
| Width           | standard handles: 19 1/4 inches (49 cm)           |
|                | rackmount handles: 19 inches (48.3 cm)            |
| Depth           | 18 3/4 inches (47.6 cm)                           |
| Weight (unpacked)| 20 lb (9 kg)                                      |
**LIMITED WARRANTY**

**CANADA & USA**

The warranty period on new Anthem products is:

- 5 years: Separate power amplifiers and integrated amplifiers
- 3 years: Audio/Video preamplifiers and receivers
- 2 years: Projectors, Blu-ray players
- 1 year: All remote controls
- 6 months: Projector lamps

The warranty period begins on the date of purchase from Anthem or an Authorized Anthem Dealer. If Anthem determines that the product has a defect in materials or manufacturing during the warranty period, Anthem will, at its option, repair, replace or provide the necessary replacement parts without charging for parts or labor. Repaired or replaced equipment or parts supplied under this warranty are covered by the unexpired portion of the warranty.

This warranty is transferable only if the re-sold product is purchased from an Authorized Anthem Dealer. Display products sold by an Authorized Anthem Dealer are covered by the same warranty except that the period commences on the date of the dealer invoice, not the purchaser’s invoice, and cosmetic flaws are excluded.

Warranty is void if the serial number has been removed, altered or defaced, if the product has been operated, installed or handled other than in accordance with the intended application, tampered with, modified, or damaged by accident, while in transport or by failure of electric power, or has been repaired by a non-authorized party. Anthem shall have no obligation to correct any defect that is not reproducible by Anthem. If inspection by Anthem discloses that the repair required is not covered by this warranty, regular repair charges shall apply.

If a problem is discovered in your Anthem product, please contact the Authorized Anthem Dealer from whom you purchased the product. Your dealer will help to determine the cause of the problem and arrange for the appropriate action. Alternatively, follow the procedure below for factory service.
A Return Authorization (RA) number must be obtained from Anthem Technical Support before a product can be shipped to Anthem for any reason. Product shipped to Anthem without its RA Number clearly visible on the outside of the shipping carton will be refused and returned to the sender, freight collect. Product shipped to Anthem must have shipping and insurance prepaid by the sender, be packaged in the original carton and packing material and accompanied by a written description of the defect. Service will not be given under warranty without an accompanying copy of the sales invoice. Product repaired under warranty will be returned with shipping and insurance prepaid by Anthem (within Canada and continental USA only).

Disclaimer of Liability

Under no circumstances shall Anthem, its agents, representatives or employees assume liability or responsibility for injury or damages sustained in the use or operation of Anthem products or for damages to connected products. Some jurisdictions do not allow limitations of incidental or consequential damages so this exclusion may not apply to you.

Anthem reserves the right to make design changes without obligation to revise prior versions. All specifications are subject to change without notice.

This warranty shall be the sole and exclusive remedy to you. No other warranty or condition, statutory or otherwise, expressed or implied, shall be imposed upon Anthem nor shall any representation made by any person, including a representative or agent of Anthem, be effective to extend the warranty coverage provided herein.

On the expiration of the warranty all liability of Anthem in connection with the product shall terminate.

INTERNATIONAL

Terms and conditions are set and maintained by the Authorized Anthem Distributor, not Anthem.