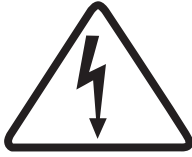




ANTHEM[®]

STR INTEGRATED AMPLIFIER

Operating Manual



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: 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 LIGHTNING FLASH WITH ARROWHEAD SYMBOL WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

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.

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.

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 when it is turned off. 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 Amplifier. Connect only to the prescribed AC outlet, i.e., 120V 60Hz or 240V 50/60Hz.

CAUTION: Top surface can become hot.

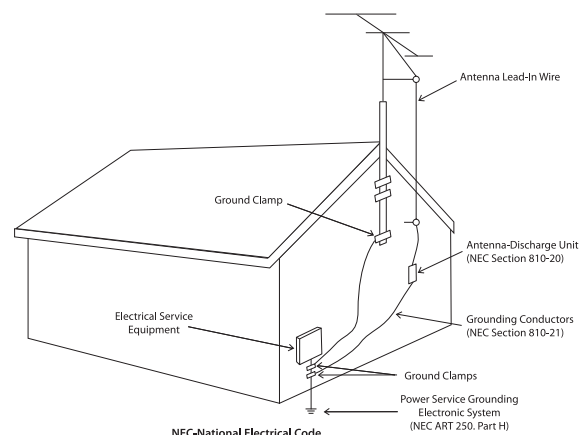
CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions, unless you are qualified to do so.

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 amplifier.
- Connect the equipment into an outlet on a circuit different from that to which the amplifier 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.

RECYCLING AND REUSE GUIDELINES (Europe)

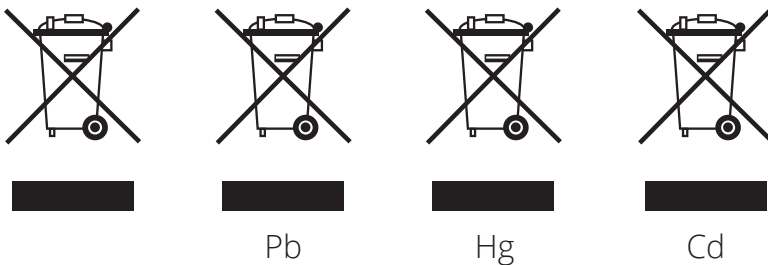
In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which, upon disposal, require special reuse and recycling processing. For this reason Paradigm Electronics 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.

INFORMATION ABOUT COLLECTION AND DISPOSAL OF WASTE BATTERIES (DIRECTIVE 2006/66/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF EUROPEAN UNION) (for European customers only)

Batteries bearing any of these symbols indicate that they should be treated as “separate collection” and not as municipal waste. It is encouraged that necessary measures are implemented to maximize the separate collection of waste batteries and to minimize the disposal of batteries as mixed municipal waste. End-users are exhorted not to dispose waste batteries as unsorted municipal waste. In order to achieve a high level of recycling waste batteries, discard waste batteries separately and properly through an accessible collection point in your vicinity. For more information about collection and recycling of waste batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

By ensuring compliance and conformance to proper disposal of waste batteries, potential hazardous effects on human health is prevented and the negative impact of batteries and waste batteries on the environment is minimized, thus contributing to the protection, preservation and quality improvement of the environment.



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

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INTRODUCTION

1.1 Before Making Connections **1**
1.2 In-Use Notices **1**
1.3 Front Panel. **2**
1.4 Rear Panel **3**
1.5 Remote Control **4**

CONNECTIONS AND OPERATION

2.1 Speaker Connections **5**
2.2 Speaker Connections **5**
2.3 Analog Connections **5**
2.4 Local Area Network **5**
2.5 12 Volt Trigger **5**
2.6 Infra Red **5**
2.7 Power **5**

SETUP

3.1 Speaker setup **7**
3.2 Bass Management **8**
3.3 Listener Position **9**
3.4 Level Calibration **10**
3.5 Input Setup **11**
3.6 Analog Input Levels **13**
3.7 Preferences / Line Output **13**
3.8 Network / Remote Control **14**
3.9 General Configuration **15**
3.10 Save/load Settings **15**
3.11 System Information **16**
3.12 USB Audio **17**

ANTHEM ROOM CORRECTION (ARC™)

4.1 Before Starting. **20**
4.2 ARC Software Installation **20**
4.3 Microphone Stand Assembly. **21**
4.4 microphone Positioning. **21**
4.5 Measurement **22**
4.6 Manual Mode and Targets **23**
4.7 Advanced Subwoofer Targets **26**
4.8 Printing a Report. **26**

OPERATION

5.1 Power on/ Off and Volume **27**
5.2 Input Selection **27**
5.3 Levels **28**
5.4 Listening Modes **28**
5.5 Info Display **28**

LIMITED WARRANTY **33**
NOTES **34**

Thank you for purchasing the Anthem STR Integrated 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.

1.1 BEFORE MAKING CONNECTIONS

Check that you have received all items listed below and report discrepancies to your dealer as soon as possible. In case the unit needs to be transported in the future, keep the packing materials.

Retain 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:

- Integrated Amplifier
- Operating manual
- Remote control
- 2 AAA batteries
- USB type B cable for the USB audio input
- USB mini B cable for software updates and ARC (PC version)
- Dual-jack microphone
- 3.5mm microphone cable for ARC (mobile app version)
- IEC power cord (US / UK / EU / CN types are supplied by the factory, other types are normally provided by the local distributor)

Additional items in Anthem Room Correction (ARC™) kit:

- USB Microphone
- Microphone clip
- Telescopic stand with boom
- USB mini B cable for the microphone
- CAT5 cable for connection to a router or network

1.2 IN-USE NOTICES

- Disconnect the power cord before connecting or disconnecting any components.
- If the amplifier was transported or stored in the cold, let it reach room temperature before use.
- Do not remove the top cover.
- Do not modify the product.
- Due to continuing advances, operational characteristics may change. If this manual contains discrepancies please check **www.anthemAV.com** for the latest manual.

1.3 FRONT PANEL



- ① Display
- ② Setup menu access and selection confirmation
- ③ Previous input or item
- ④ Volume control and menu navigation
- ⑤ Next input or item
- ⑥ Mute
- ⑦ Power

1.4 REAR PANEL



- ① Power cord inlet (IEC C18 type)
- ② Fuse
- ③ Speaker terminals
- ④ USB DAC input (Windows PCs need to have XMOS driver installed)
- ⑤ AES/EBU digital audio input
- ⑥ Coaxial digital audio inputs (2)
- ⑦ Optical digital audio inputs (2)
- ⑧ Factory Use Only
- ⑨ Software installation and ARC via PC
- ⑩ Ethernet connection for Anthem Room Correction, software installation and control
- ⑪ RS-232 (serial) connection for control
- ⑫ 12V DC / 50 mA trigger output
- ⑬ IR input
- ⑭ Phono ground terminal
- ⑮ Moving coil phono input
- ⑯ Moving magnet phono input
- ⑰ Analog RCA inputs (4)
- ⑱ Balanced XLR input
- ⑲ Line outputs (fixed-level, suitable for a headphone amp or recording device)
- ⑳ Subwoofer outputs (2, mono or stereo operation)
- ㉑ Left/Right preamplifier outputs (variable-level)

1.5 REMOTE CONTROL

- ① Power – On
- ② Setup menu
- ③ Power – Standby
- ④ Navigation
- ⑤ Input
- ⑥ Info (pertaining to input and output)
- ⑦ Listening Modes (mono/stereo)
- ⑧ Levels (sub, bass, treble, balance)
- ⑨ Mute
- ⑩ Volume



2.1 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.

2.2 DIGITAL INPUT CONNECTIONS

Stereo digital audio sources can be connected using AES/EBU, coaxial or optical cable. The PCM stereo format up to 24-bit / 192 kHz is supported by all digital inputs. If using sources that have an option for selecting between PCM and Bitstream or Dolby Digital audio output, select PCM.

A personal computer can also be connected to the asynchronous USB DAC input. Stereo PCM up to 32-bit / 384 kHz, and DSD format up to 5.6 MHz are supported through this connection. Simply connect your computer and use media playing software on it to have music playing through your system. If using a Windows PC, the USB DAC driver must first be downloaded from our web site and installed. With Mac OS, just plug and play.

2.3 ANALOG CONNECTIONS

Balanced XLR connection offers the highest analog transmission quality, particularly over long cable lengths because it rejects noise and hum pickup. One such input is provided using the conventional pin-2 positive configuration. There are also four RCA line inputs.

For phono, there are two inputs. Be sure to use the correct one otherwise level will be affected and treble response may be altered. The MM input is suitable for turntables using moving-magnet and high-output moving-coil phono cartridges. The MC input uses input impedance and gain tailored to low-output moving-coil cartridges. As well, connect the ground wire from the turntable to the screw terminal next to the phono inputs to prevent excessive hum.

The subwoofer jacks are labelled “L” and “R” but if the system uses one subwoofer, it can be connected to any subwoofer output jack.

2.4 LOCAL AREA NETWORK

A network connection is required for configuring Anthem Room Correction or using IP control. Simply connect your router using CAT5 cable.

2.5 12 VOLT TRIGGER

If another system component has a trigger input it can be activated by the STR Integrated Amplifier. Connect the STR Integrated Amplifier's trigger output using a cable with 3.5mm mini plugs. The STR Integrated Amplifier provides flexible trigger options. Through the setup menu, you can specify the conditions for enabling triggers.

2.6 INFRA RED

An external IR receiver allows the remote control to be used from another location in your home – connect the STR Integrated Amplifier from an external IR hub to the IR IN jack. Most standard IR repeater kits can be used but to avoid problems test compatibility before installing permanently.

2.7 POWER

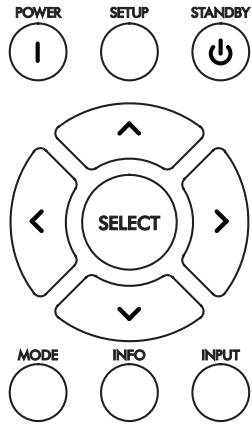
Connect the power cord to the STR Integrated Amplifier and the power source.

SETUP

For optimum performance and enjoyment, your STR Integrated should be properly set up. This might seem like a lot of work at first because of the number of menu options, but most settings do not need to be changed from the defaults. The important ones relate to your input connections and speakers. If you're using a subwoofer or subwoofers, Anthem Room Correction will set crossovers and levels for a perfect blend with the main speakers. The rest of the settings mostly relate to your preferences.

HOW TO NAVIGATE IN THE SETUP MENU

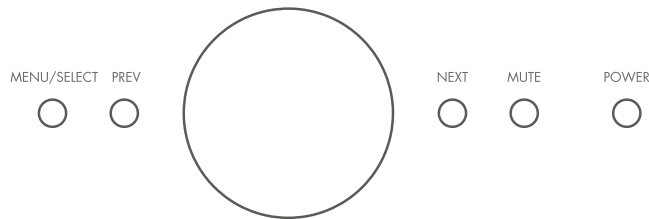
Remote Control



- Press **Setup** to enter or exit
- Press **Up** and **Down** arrows to move up and down on a list or to modify a selected item
- Press **Right** arrow or **Select** to select an item or to save a modification
- Press **Left** arrow to move up one menu level or to cancel a modification

TIP – modifying items which have many options, especially the alphanumeric characters and symbols when renaming an input, is faster using the front panel volume control.

Front Panel



- Press **Menu/Select** two times to enter and once to exit
- Use the **Volume** control to move up and down on a list or to modify a selected item
- Press **Next** to select an item or to save a modification
- Press **Prev** to move up one menu level or to cancel a modification

The help line at the bottom of the display will also guide you through various menu levels.

The display shows up to four menu selections at once, though in this section of the manual all menu items are shown together for simplicity. The top menu contains these items:

Setup Menu

- Speaker Setup
- Bass Management
- Listener Position
- Level Calibration
- Input Setup
- Analog Input Levels
- Preferences
- Network/Remote
- General Configuration
- Save/Load Settings
- System Info

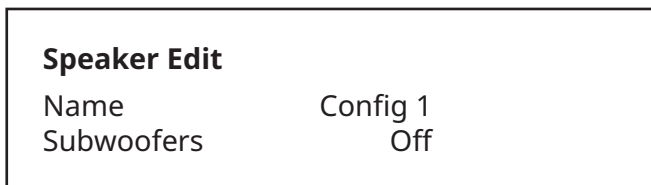
3.1 SPEAKER SETUP

Normally only one speaker configuration is needed but more are provided for instant recall of stored subwoofer or Anthem Room Correction settings.

If you will be using the personal computer version of ARC, you can skip this menu since it will be set while the program is running.



Each configuration contains this submenu:



PROFILE NAME

Using the navigation keys and volume knob each profile can be renamed, up to 10 characters long. Note that the profile name is best set in Anthem Room Correction (Targets panel) because during file upload the name in the menu is overwritten by the one in ARC.

SUBWOOFERS

The STR Integrated Amplifier allows one or more subwoofers to be connected.

Although subwoofers are often thought of as something for home theater systems, their use is recommended for music as well. A subwoofer normally plays bass that is louder, deeper, and less distorted than that of a full-range speaker, and it can be positioned anywhere in the room to help cure resonances that otherwise make the bass sound bloated and lacking definition. Anthem Room Correction quickly and easily creates precise calibration and seamless integration with the main speakers, eliminating unnatural sounding transitions which often made subwoofers and main speakers sound disconnected from one another regardless of the amount of time spent on tweaking.

The setting options are:

- Off – select this if there is no subwoofer in the system or speaker profile.
- 1 Mono – a mono music signal gets sent to all subwoofer jacks. ARC will measure and correct all the subwoofers as a group. This is the generally recommended setting whether using one or more subs.
- 2 Mono – a mono music signal gets sent to all subwoofers but ARC will measure and correct them separately for the L and R output jacks. Select this if you intend to control the delay (distance) and level separately for each subwoofer channel.
- 2 Stereo – the bass from the music source's left channel will be sent to the L subwoofer output and the bass from the right channel will go to the R output. ARC will measure and correct the L and R subs individually. Select this if you have a subwoofer next to each main speaker and would like for them to use a stereo bass signal, especially if the crossover frequency will be set closer to upper bass where the sound becomes directional.

3.2 BASS MANAGEMENT

In this menu, information about your speakers is used to optimize bass performance.

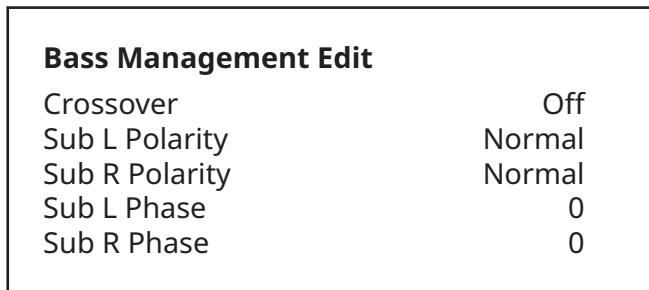
First, set your subwoofer's frequency control to its highest frequency since the bass manager will determine how much upper bass is sent. If your subwoofer has a contour control, set it to flat if you will be using Anthem Room Correction. If it has a phase control, set it to 0 and if it has a polarity switch, set it to Normal as you'll be able to control phase and polarity from your listening chair and hear changes instantly.

The bass manager divides the audio range into two bands suitable for subwoofer/satellite speaker systems. The result is that the main speakers don't need to play bass as loudly or as deeply since it gets picked up by the subwoofer. Note that a crossover does not suddenly cut frequencies in a cliff-like profile, but rolls them off according to a slope. If set to 80 Hz, for example, frequencies lower than 80 Hz are still played by the main speaker while transitioning them to the subwoofer.

Highlighting Bass Management then pressing Select displays this menu:



Four configurations may be set up. Each contains the following:



CROSSOVER FREQUENCY

The range is 25 to 160 Hz in 5 Hz steps, or Off which disables the crossover.

Setting the crossover to the lowest number on your speaker's specification page is unlikely to provide the best result. Instead, setting it to twice this frequency or thereabout, which is an octave higher, ensures that the speaker's woofer will still play to its low frequency limit but at levels that present less of a struggle for it.

If you will be using the personal computer version of ARC, you do not need to select the crossover frequency since it will be set while running the program.

SUBWOOFER POLARITY AND PHASE

Certain subwoofer positions can cause bass frequency cancellation. When the front speakers and subwoofer are out of phase or misaligned, they work against each other resulting in weak and dislocated sounding bass. This can be corrected by adjusting Phase and Polarity.

As a general guide, set Polarity to Normal if the subwoofer is near the front speakers and to Inverted if the subwoofer is near the back of the room. Compare Normal to Inverted and use the setting that provides louder bass. Continue fine-tuning the crossover region using the Phase control which provides adjustment from 0 to 180 degrees in 5 degree increments.

3.3 LISTENER POSITION

Through these settings, sound coming from all speakers is coordinated to reach the listening area at the same time. This way, proper imaging is achieved. The channel with the greatest distance setting will have no delay while channels with shorter distance settings will be delayed accordingly.

Distances may be set before or after running ARC (ARC does not set distances).

Listener Position
Config 1
Config 2
Config 3
Config 4

These settings are displayed for each configuration:

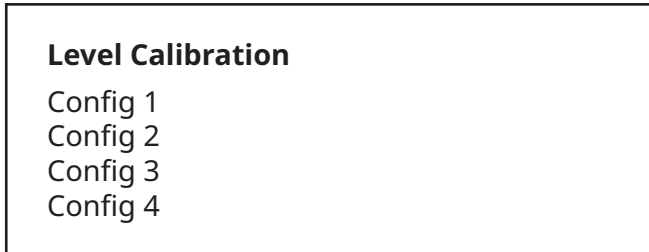
Listener Position Edit	
Units	Feet
Sub Left	12' 0"
Sub Right	12' 0"
Front Left	12' 0"
Front Right	12' 0"

For measurement units, select feet or metres and enter the distance between your primary listening area and each speaker. Range is 0 to 29' 6" in 2-inch increments or 0.00 to 9.00 m in 5 cm increments.

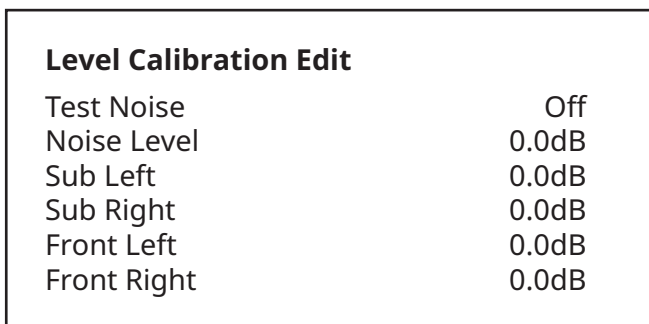
3.4 LEVEL CALIBRATION

Level Calibration uses internally generated test noises to match speaker output levels at the listening position, if using an SPL meter for calibration.

If using Anthem Room Correction, you can skip this menu because levels will be calibrated during measurement.



These settings are displayed for each configuration:



To play the test noise, set it to "On" then highlight a speaker.

A sound pressure level (SPL) meter with C-weighting is recommended if not using ARC, especially to set the subwoofer level because it is often set too high when calibrating by ear. Measure the sound pressure from the listening position while pointing the meter up. Hold it away from your body to prevent reflections. Adjust each channel's level so the meter has the same reading with all speakers.

The level adjustment range is -12.0 to 12.0 dB in 0.5 dB increments. You may need to adjust your subwoofer's input level dial as a rough adjustment.

3.5 INPUT SETUP

Inputs and listening mode presets are configured in this section. From the factory, all input jacks are configured and named accordingly but you may change this to anything from 1 to 30 input configurations.

Input Setup

- Coaxial 1
- Coaxial 2
- Optical 1
- Optical 2
- AES/EBU
- USB
- RCA 1
- RCA 2
- RCA 3
- RCA 4
- Phono MM
- Phono MC
- XLR
- Add Input
- Insert Input
- Delete Input

To add an input at the end of the list, highlight Add Input and press Next.

To insert an input in the middle of the list, highlight Insert Input and press Next. The display will guide you through the remaining steps.

To delete an input, highlight Delete Input and press Next. The display will guide you through the remaining steps.

These settings are displayed for each configuration, though a phono input is shown here because it uses all menu items:

Input Setup Edit

Name	Phono MC
Input Jack	Phono MC
Convert Analog	24/192
Speaker Profile	Config 1
ARC	Yes
Mode	Stereo
Rumble Filter	35 Hz

INPUT NAME

Each input can be renamed, up to 10 characters long. To begin editing, press Next. The volume knob is the fastest means of changing characters. Use the Next button to move to the next character, and when finished renaming, select the green checkmark. To cancel editing, press Prev to select the red X.

Example – Rename “Optical 1” to “Server”:

- Highlight “Name” and press Next. The first character will have a box around it.
- Use the up/down buttons or volume knob to change “O” to “S”.
- Use the Prev/Next buttons to move to each remaining character and complete the renaming.
- Move the box to the green checkmark to save the changes.

INPUT JACK

Select the connection to be used – Coaxial 1, Coaxial 2, Optical 1, Optical 2, AES/EBU, USB, RCA 1, RCA 2, RCA 3, RCA 4, Phono MM, Phono MC, XLR.

CONVERT ANALOG

By default, analog inputs are converted to 24-bit / 192 kHz using a high-quality A/D converter to allow Anthem Room Correction, bass management, distance calibration, bass/treble controls, listening modes, and rumble filter. If this setting is changed to No, signal processing is bypassed and only level adjustment remains.

SPEAKER PROFILE

Select the profile to use with this input.

ANTHEM ROOM CORRECTION

The ARC measurement process, described later, will turn this on. To disable room equalization afterward, change this to “No”. If a measurement file isn’t loaded, this menu item is grayed.

LISTENING MODE PRESET

By default, the output is in stereo but one of the other settings may improve the sound of old records. The mode can be changed on the fly but in this menu you can assign a preset according to input configuration.

- **Stereo** – this is the default and does not alter the channel mix.
- **Mono** – this blends the left and right channels and can be useful when playing mono records with a stereo cartridge. Without this, stereo noise flanking mono music can be distracting.
- **Both = Left** – this sends the left input to both channels and can be useful when playing a mono record with a stereo cartridge when the left groove wall has less wear and sounds better than the right groove wall. This is also useful with sources that have only one output connector.
- **Both = Right** – like above but for the right channel.
- **Last Used** – select this to disable presets and make selections entirely on the fly.

RUMBLE FILTER

Use this to roll off low-frequency noise below the spectrum of the music when using a turntable. Select a frequency from 10 to 60 Hz in 1 Hz increments. To disable the rumble filter, select Off.

3.6 ANALOG INPUT LEVELS

Through this menu, unwanted changes in volume when switching to or from an analog source can be prevented. This is especially useful for some XLR sources that produce higher than typical output level, and for the phono inputs since cartridge output levels vary considerably between models.

Analog Input Levels	
RCA 1	0.0dB
RCA 2	0.0dB
RCA 3	0.0dB
RCA 4	0.0dB
Phono MM	0.0dB
Phono MC	0.0dB
XLR	0.0dB

The adjustment range for raising or lowering the input level is -20 to 20 dB in 0.5 dB increments.

3.7 PREFERENCES / LINE OUTPUT

Here you can set preferences as listed.

Preferences	
Display Brightness	Medium
Display Wakeup	High
Displayed Info	Volume
Mute Level	Muted
Maximum Volume	6.0dB
Power-On Volume	-35.0dB
Power-On Input	Last Used
Mute Line Out	None

DISPLAY BRIGHTNESS

Set preferred front panel brightness between Max, High, Medium, Low or Off.

FRONT PANEL WAKE-UP

When a button is pressed the display can go to a brighter level for 5 seconds – select Max, High, Medium, or Low.

DISPLAYED INFO

By default, only the volume is displayed. Select “All” to add the input, input format, mode, and ARC status to the display.

MUTE LEVEL

When Mute is pressed, sound can be muted or lowered to background level. Select from Muted, -30 dB, -20 dB, or -10 dB.

MAXIMUM VOLUME

This setting allows you to limit the volume to avoid damaging equipment and/or hearing.

POWER-ON VOLUME

The volume will be at this level when the unit is turned on. To power-on at the last used volume, set the volume preset below -96.0 to make Last Used appear.

POWER-ON INPUT

The input will be the assigned one or Last Used when the unit is turned on.

MUTE LINE OUT

If using a recording device, select the input that the recorder’s output is connected to. This prevents the recorder’s output from being fed back to its input, which can result in a loud noise.

3.8 NETWORK / REMOTE CONTROL

Network / Remote	
Status	192.168.000.001
Device Name	STR Int
IP Configuration	
RS-232 Configuration	
Trigger Control	
Rear IR	Off
Front IR	On

NETWORK STATUS

This displays the unit's IP address once connected to the local area network.

DEVICE NAME

This is the name that the unit broadcasts, and can be changed using up to 8 characters.

IP CONFIGURATION

Settings in this submenu should only be changed by a network administrator.

IP Configuration	
Mode	Auto (DHCP)
IP	192.168.000.001
Subnet Mask	255.255.255.000

MODE

Static IP settings take effect once this is changed to Manual.

RS-232 CONFIGURATION

For serial control, select baud rate from 1200, 2400, 4800, 9600, 19200 (default), 38400, 57600, 115200 and set flow control on or off (default).

TRIGGER CONTROL

When the unit's trigger output is connected to the trigger input of another component such as an amplifier, it can be turned on or off according to the trigger's setup (12 VDC, max 50 mA).

- **Trigger Control** – select Menu to configure triggers via the setup menu, or RS-232/IP to control the trigger output through serial or IP commands.
- **Power** – when set to Yes, the trigger activates when the unit's power is turned on. When set to No, the input list appears and the trigger can be configured to activate through any combination of input selection.

REAR AND FRONT IR

This allows you to disable each of the infra-red inputs, which can be useful when the unit is connected to an IR repeater and is receiving too many signals.

Note that the moment that you disable the front IR input, you will not be able to control the unit the traditional way from the remote control. Re-enable it using the front panel buttons. If your remote control appears to not be working and you have checked the batteries, check this menu next before contacting technical support.

3.9 GENERAL CONFIGURATION

This menu contains power saving and control options.

General Configuration	
Auto Off	20 Minutes
Standby IP	Off

AUTO OFF

When there is no input signal the unit will turn off after the selected time: 5, 10, or 20 minutes, 1, 2, or 6 hours, or Never.

STANDBY IP CONTROL

When disabled, the unit goes into a low-consumption standby mode and does not sense IP commands. To make it respond to a power-on command, enable this setting. This can also be used with RS-232 control to avoid sending a wake-up command.

3.10 SAVE/LOAD SETTINGS

Save / Load Settings
Save User Settings
Save Installer Settings
Load User Settings
Load Installer Settings
Reset On-The-Fly Settings
Load Defaults

SAVE/LOAD USER AND INSTALLER SETTINGS

After selecting Save User Settings and confirming, all menu settings will be stored. If you change settings later and want to recall the saved settings, select Load User Settings and confirm. The same applies to saving and recalling installer settings.

RESET ON-THE-FLY SETTINGS

After selecting and confirming, all non-menu settings such as level and bass/treble will be reset.

LOAD DEFAULTS

After selecting and confirming, all menu settings will be reset.

FACTORY RESET

Use this only as a last resort if the unit becomes inoperable. Disconnect the power cord and re-connect it while holding the front panel power button. Do not let go of the button until something appears on the display. The unit will revert to the software it was manufactured with and all settings will be reset.

3.11 SYSTEM INFORMATION

System Info	
Update via USB	
Firmware Version	0.1.5078
FW Date	01/27/17 14:38
ARC Name	
ARC Date	
MAC	00:04:A3:93:FA:62

FIRMWARE VERSION AND UPDATES

The operational characteristics of the STR Integrated Amplifier are controlled by software. For best performance and latest features, ensure that your unit is running the newest software. This gets installed through Anthem Room Correction which is fully explained in the next section. In this section only the STR software update is explained.

If your STR is connected to your network with internet access, you do not need to manually download the update from our web site. Alternatively, the update can be downloaded from our web site first and installed afterwards.

Without network connection:

- On **www.anthemAV.com** locate the software pertaining to your model. Proceed only if your version number is lower, indicating that it is older.
- You will be asked where to save a .zip file – save it to Desktop.
- When the .zip file download is complete, extract it to Desktop.
- See Read Me.txt for the change history.
- Connect your computer to the STR rear panel USB jack labeled PC UPDATE using the supplied USB cable or similar one.
- Using ARC software, select Tools at the top of the window, then Firmware Update, and follow its instructions to manually update using the file on Desktop.

With network connection:

- Ensure that your STR is on the same network as your computer, and that the network has Internet access.
- Using ARC software, select Tools at the top of the window, then Firmware Update. When it asks whether you would like to update manually, select “No” and it will check our web site for updates.

Installation takes less than 10 minutes and the display will indicate progress. Do not interfere by pressing buttons or turning power off – the unit will turn on and off by itself a few times. At the end it will remain on with the normal volume info on the display.

ARC NAME

This is the name that you gave to your measurement file.

ARC UPLOAD TIME

This is the date and time that your ARC file was uploaded.

MAC ADDRESS

This is the unit's unique identifier for network communication.

3.12 USB AUDIO

Your computer can be used as a music source by connecting its USB port to the USB DAC input on the STR Integrated and running the media player on your computer that you normally use for playing music.

Mac does not require setup for this purpose - just plug and play (OS 10.6.4 and higher supports USB Audio Class 2.0).

For PC, a driver needs to be installed to add USB audio functionality:

- Download the XMOS driver from www.anthemav.com.
- Extract **XMOS-Stereo-USB-Audio-Class2-Driver.exe** to Desktop and double-click it.
- Run the installation. It will ask whether you'd like to connect the device later. If selecting No, first connect a USB port on your PC to the USB DAC input on the STR Integrated and turn it on.

Once driver installation is complete the installer may be deleted. Your PC, through its music playing software, will be ready to stream music to the STR Integrated.

DSD PLAYBACK

If you're planning to play DSD audio files, ensure that your computer's software supports the format.

Optional - For PC, a popular and free program is called Foobar. This can be set up for DSD as follows*:

1. Install the Foobar2000 music player which is available from this web page:

<http://www.foobar2000.org/download>

2. Install the SACD (DSD) decoder:

- Download **foo_input_sacd-1.0.x.zip** from:
<https://sourceforge.net/projects/sacddecoder/files/latest/download>
- From the zip file, copy **foo_input_sacd.fb2k-component** to this directory:

(Computer, OS) **C:\Program Files (x86)\foobar2000\components**

- Run Foobar2000 and go to File / Preferences / Components.
- Select Install and browse to the foobar2000\components directory.
- Select **foo_input_sacd.fb2k-component** then click Open.
- Select Apply to complete this installation.

3. Install the ASIO driver:

- Download **foo_out_asio.fb2k-component** from:
http://www.foobar2000.org/components/view/foo_out_asio
- Move **foo_out_asio.fb2k-component** to this directory:

(Computer, OS) **C:\Program Files (x86)\foobar2000\components**

- Run Foobar2000 and go to File / Preferences / Components.
- Select Install. Browse to the foobar2000\components directory if necessary.
- Select **foo_out_asio.fb2k-component** then click Open.
- Select Apply to complete this installation.

4. Configuring Foobar for DSD:

- Go to File / Preferences / Playback / Output.
- In the Device pull-down list, select the following then click Apply:
DSD : ASIO : XMOS USB AUDIO 2.0 ST 308F (or newer)
- Go to File / Preferences / Tools / SACD.
- Change Output Mode to DSD+PCM and click OK.

Upon completion of these steps, your PC is ready to stream music from DSD files.

If you have trouble with Foobar installation or use, please do not contact our tech support regarding it. A solution may be available using an online search.

* These steps regarding installation and use of third party software and its components are provided for informational purposes only.

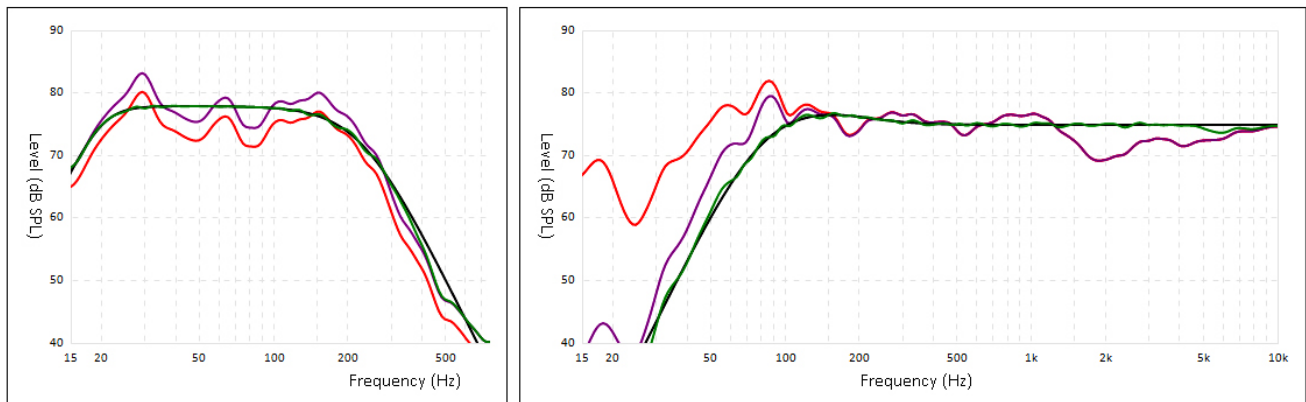
ANTHEM ROOM CORRECTION (ARC)

For anyone reading this, the experience of walking into a room and being struck by the dramatic change in its sound after carpet and furnishings have been moved out is probably a familiar one. It may also bring to mind the varying sound character from one room to the next according to its size and structural qualities.

By the same token, even when the finest speakers are optimally positioned, the room impacts sound quality considerably. The walls, floor, ceiling, and windows add unwanted resonance and coloration making bass less impactful, voices less natural, and dialogue less intelligible. The effect on frequency response is typically ± 6 dB in the midrange and ± 10 dB at low frequencies. To compensate for this and to optimize the in-room response of your speakers, Anthem Room Correction measures the output of each one relative to the listening area then through a special series of calculations adjusts the output accordingly. Its target responses have a psychoacoustic basis from research results, not just theoretically ideal curves.

While removing resonances and modal peaks common to the measurement positions, ARC also distinguishes and preserves the positive effects imparted by the room by detecting how much the room's boundaries and pressurization reinforce low frequencies. This effect, known as room gain, appears as a bump in the target response. ARC does not remove it because if flattened, bass sounds thin. Our ear/brain mechanism expects to hear this characteristic when indoors. Ideal anechoic speaker response, as measured in a special non-reverberant facility, is not the same as ideal in-room response, which normally includes this room gain to varying degree. It is one reason that a speaker sounds different outdoors when in fact it is the same speaker. If a speaker indoors was forced to sound like it's positioned outdoors, it just wouldn't sound right.

Sample curves:



The red curves represent the in-room response before correction, as an average from five measurement positions, whereas the green ones show response with equalization applied. In this case a subwoofer and bass management are also in use. In the subwoofer graph, which is on the left, the difference between the level of the red and purple curves shows the amount of room gain.

In addition, ARC senses where each speaker's low-frequency response naturally declines, and sets the high-pass filters to match this natural limit.

The default correction range is 5 kHz. Although it can be changed to a lower frequency if desired, raising it is not recommended. At higher frequencies the microphone becomes directional thus affecting measurement accuracy.

Note that the subwoofer graph may imply that the subwoofer plays up to the highest frequency shown, but what it plays depends on what the other channels send to it as determined by their crossover setting. The subwoofer graph shows the available correction range, which is not necessarily the range that other channels send to it through bass management.

4.1 BEFORE STARTING

Ensure that the processor software and ARC-2 software that you will be using are compatible with one another. Check www.anthemAV.com for latest versions.

PERSONAL COMPUTER VERSION OF ARC:

- Your computer must be running Windows 7 or later and be connected to the same network as the processor, or directly to the processor with the supplied USB Mini cable.
- Depending on your network's settings, you may need to enable sharing to allow the processor to be seen by your computer.
- If you are using a laptop computer, check its power settings and battery meter to ensure that procedures will not be interrupted.

MOBILE APP VERSION OF ARC:

- Configure the Speaker Setup menu before measurement if your speaker system does not correspond to the existing menu configuration.

BOTH VERSIONS:

- If more than one processor is on your network, each may be identified by MAC address, IP address, or the Device Name which appears in the setup menu.
- Ensure that the room will be sufficiently quiet during measurement. Typical background noise is detected and rejected with no impact on measurement accuracy but if excessive noise is present, ARC will indicate that re-measurement is required.
- If using a subwoofer, ensure that its crossover frequency dial is set to its highest frequency before measurement. ARC will manage the transition between the main speakers and subwoofer. Any adjustments to the subwoofer after measurement would require ARC to be run again.

4.2 ARC SOFTWARE INSTALLATION

MOBILE APP VERSION:

On the iTunes store, locate **Anthem ARC Mobile** and install it to your device.

PERSONAL COMPUTER VERSION:

1. Go to <https://www.anthemav.com/support/latest-software.php>
2. Download the software. Depending on ARC microphone model, a support file named using the microphone's serial number may be required. If your microphone is numbered, enter its number on the web page before downloading. Be sure to enter the correct number otherwise the frequency response will be inaccurate.
3. Unzip the download.
4. Run setup.

To add a new numbered microphone after ARC has been installed, re-installation isn't needed - simply copy new calibration files to this directory:

(Computer, OS) **C:\Program Files (x86)\Anthem Room Correction 2**

During measurement, ARC will list the installed files and ask you to pick the one corresponding to the microphone in use.

What are the differences between the computer and mobile versions of ARC?

1. With the phone's internal microphone there may be minor variations from ideal response. The maximum equalization frequency is restricted to 2 kHz in this case. The external dual-jack microphone using 3.5mm connection is preferred since it provides the same measurement accuracy as the main kit's USB microphone.
2. The computer version allows viewing and printing curves, target curve customization, and multiple configurations for different applications that may be useful according to various sources, conditions, and preferences.

4.3 MICROPHONE STAND ASSEMBLY

If using the mobile device's microphone, skip this section.

1. Loosen the tripod base screw, move the base to the bottom of the telescoping tube, re-tighten the screw.
2. Screw the microphone clip to the other end of the stand. Position the clip vertically.
3. Connect the USB microphone cable to the microphone and slide the microphone into the clip.
4. Adjust height by first loosening the clamps on the telescoping tube and on the arm. The stand may be placed on the floor or on the seat according to whichever way puts the microphone capsule in its proper position.

4.4 MICROPHONE POSITIONING

This section mainly applies to the personal computer version and full ARC kit since the mobile app version will guide you when using the mobile device's microphone or the dual-jack microphone. The dual-jack microphone may also be used with the microphone stand and/or the PC version of ARC via USB connection.

Proper microphone positioning is essential for good results. Multiple positions are required to prevent standing waves or boundaries from skewing results.

- The microphone must point straight up.
- The microphone capsule, the listener's ears, and the speaker's acoustic center (or tweeter if in doubt) should be at approximately the same height. If the result sounds dull or bright try a different microphone height and repeat measurement.
- The first microphone position must be at or just in front of the central seating position. Speaker levels are calibrated from this position. For the remaining positions, place the microphone in the most often used parts of the listening area while ensuring that all mic positions are at least 2 feet (60 cm) apart. If there is only one listening position, positions 2 through 5 must be a circle or box around the listening chair - do not use a position more than once!
- Five different positions, and no less, are normally adequate but for larger rooms up to ten may be used.

If most or all listening positions are close to a wall:

- At least half of the microphone positions should be a minimum 2 feet (60 cm) away from the wall.
- Vary distances between microphone and wall by 1 foot (30 cm) or more, for example two or three positions can be 2 feet (30 cm) away but the remaining two or three should be at least 3 feet (90 cm) away.

In summary:

DO

- Set the mic at ear level pointing straight up.
- Use mic positions that are at least 2 feet (60 cm) apart from each other even if there's only one seating position.
- Use more than five measurement positions if using only five would result in their being more than 6 feet (2m) apart due to a large listening area.
- Start with the first measurement position in the center of the listening area.

DO NOT

- Use mic positions close to walls. If all seating positions are against the rear wall, three or more mic positions should be in front of the seating area. Vary the distance of these positions relative to the wall by 1 foot (30 cm) or more so they are not all the same distance from the wall.

4.5 MEASUREMENT

The remaining ARC instructions apply to the personal computer version. If using the mobile version, follow its instructions instead.

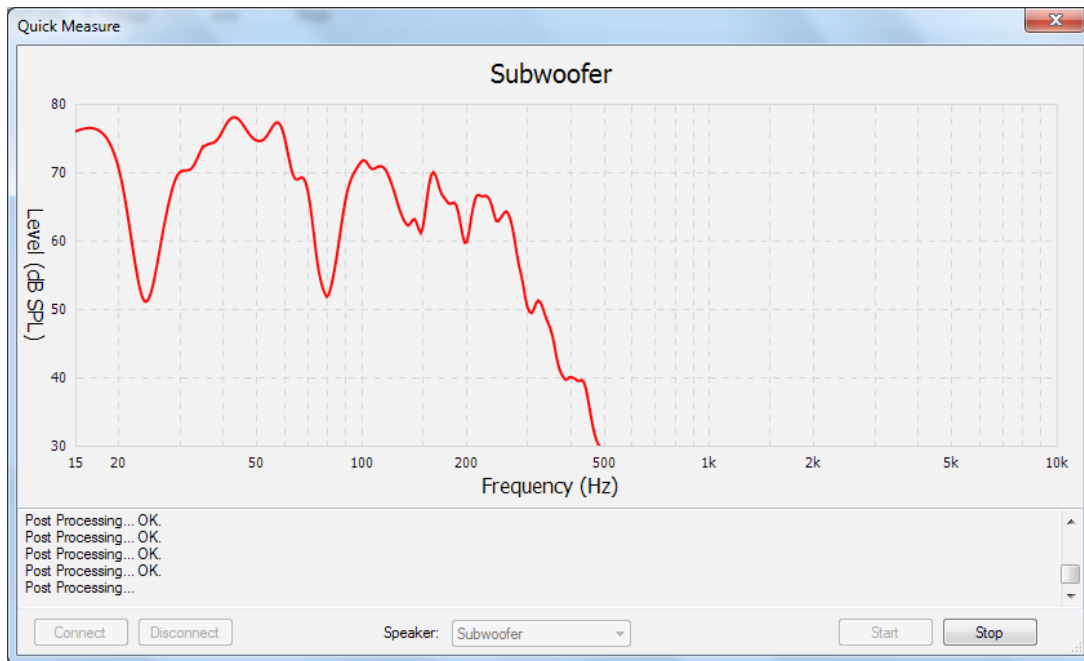
- Connect the microphone and the processor to the computer.
- Set the microphone in the first position. Don't stand near the microphone while sweep tones are playing otherwise reflections from your body may cause bad measurements.
- Run Anthem Room Correction. Use Automatic mode if you are a first-time user. It will guide you through the remaining steps and at the end will load the correction data to your processor. You will still be able to change things if needed, but just remember where you're saving the .arc2 measurement file so you can find it later. The entire process takes about 5-10 minutes depending on the number of measurements and configurations.
- Up to 16 characters may be used to name a measurement. Valid ones are: a-z, A-Z, 0-9, " ", "-", ".", ":", ";", "<", "=", ">", "?", and "@". The rest will be removed if used.
- Once the ARC program has completed its procedure, you can disconnect the computer.
- Save your settings in the processor's setup menu using its Save / Load Settings menu.

QUICK MEASURE SPEAKER POSITION HELPER

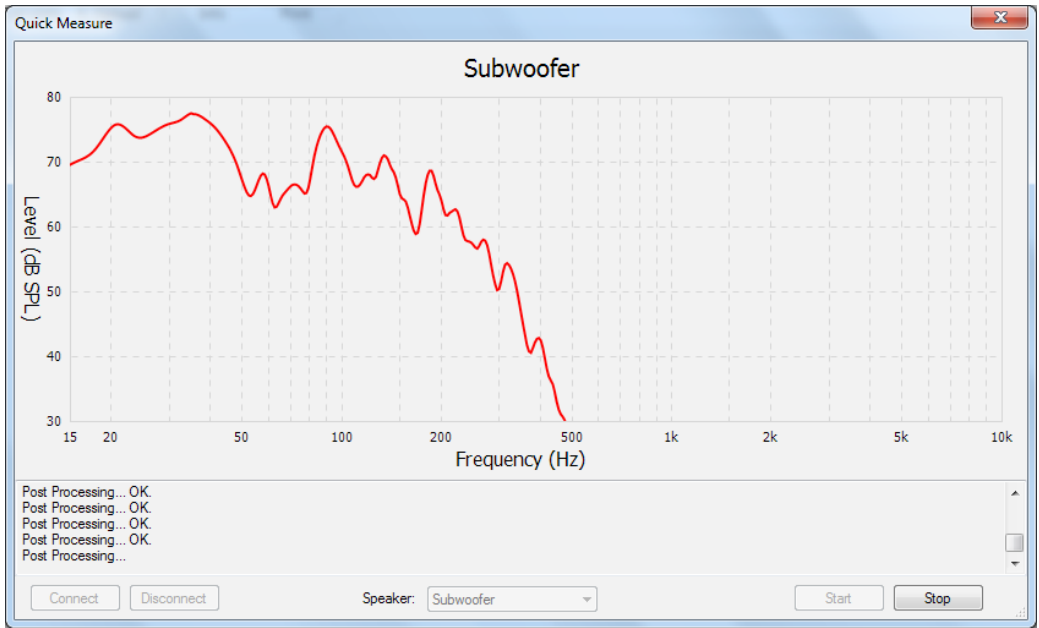
If speaker positioning is flexible, particularly for the sub, Quick Measure can help you with speaker positioning especially if an initial ARC measurement shows that there is room for improvement.

To use it, run ARC Manual mode. Click on the Quick Measure button and enable the sweep tone for the speaker that you are positioning. Note that this will reset level calibration. After a few sweeps the graph will show a live update of the uncorrected measurement. It will keep running until you turn it off. After finding good speaker positions, run the full ARC measurement.

The graphs that follow show how moving a subwoofer can improve uncorrected response. Large dips like these are not uncommon:



They can almost always be cured by repositioning speakers and repeating the measurement:

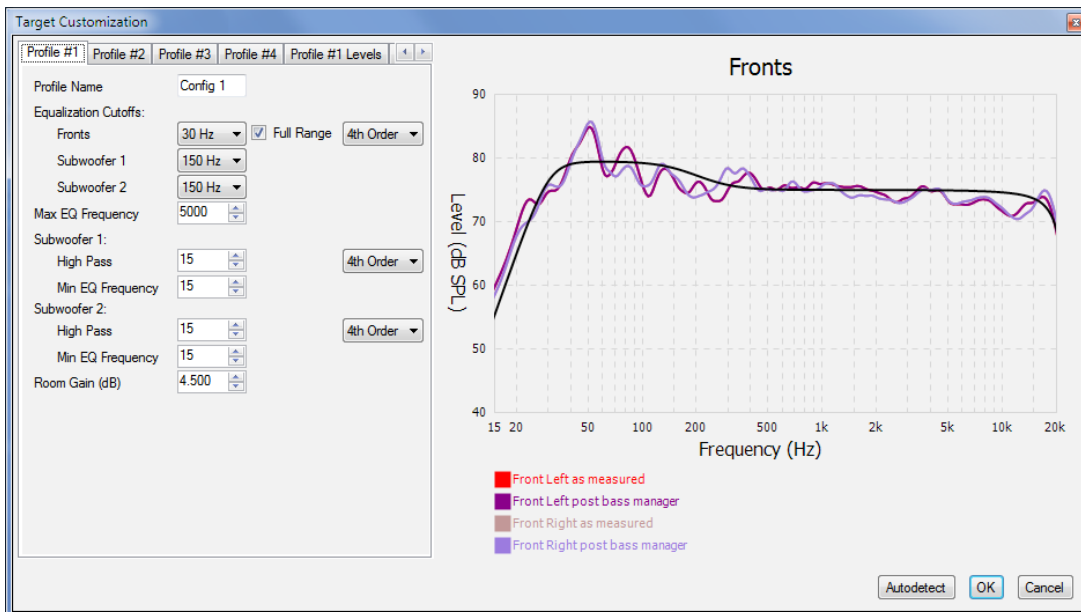


4.6 MANUAL MODE AND TARGETS

When creating a new measurement, Manual and Automatic modes operate identically except that automatic mode does not require clicking on Measure, Calculate, and Upload between these stages. It also allows results to be viewed before upload, and for Targets to be edited. A file created in Automatic mode can later be opened in Manual mode.



A file created in Automatic mode can be opened in Manual mode to allow target editing. After changing targets, you must click OK when closing the window to apply the settings, then Calculate. To restore original settings, click on Auto Detect then Calculate.



For advice in getting the most out of your system based on your measurements, we welcome you to send your .arc2 file (please do not send screenshots) to Anthem Technical Support.

WHAT NOT TO DO

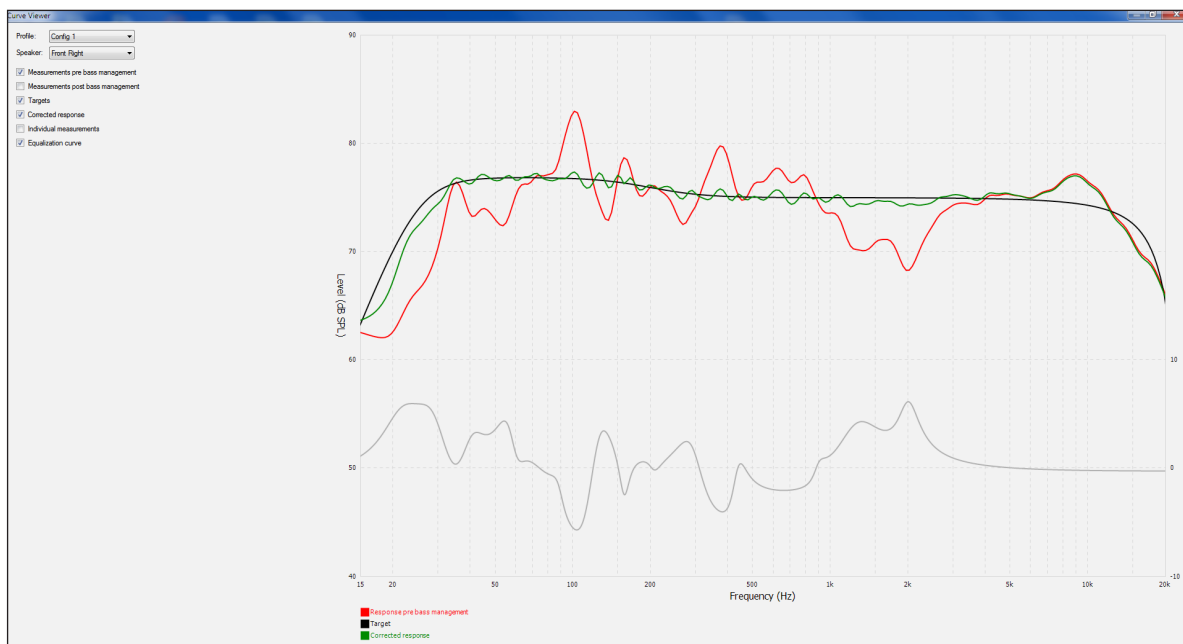
Before we get to that, something to be aware of if at first listen it appears that the equalization has reduced overall bass: It is easier to hear peaks in response than dips. ARC doesn't only level the peaks, but also the dips. With the equalization turned on it may be immediately apparent that boominess is gone, but it may take longer to notice that bass notes which were buried all along have become audible, and for this reason you might want to spend a week getting used to the new sound. Once becoming accustomed to tight bass with the entire range playing at equal level, chances are you'll never want to go back to bloated one-note bass.

If comparing ARC on vs off, note that the subwoofer's level is calibrated according to ARC being on. If ARC is then disabled, subwoofer level may need adjustment.

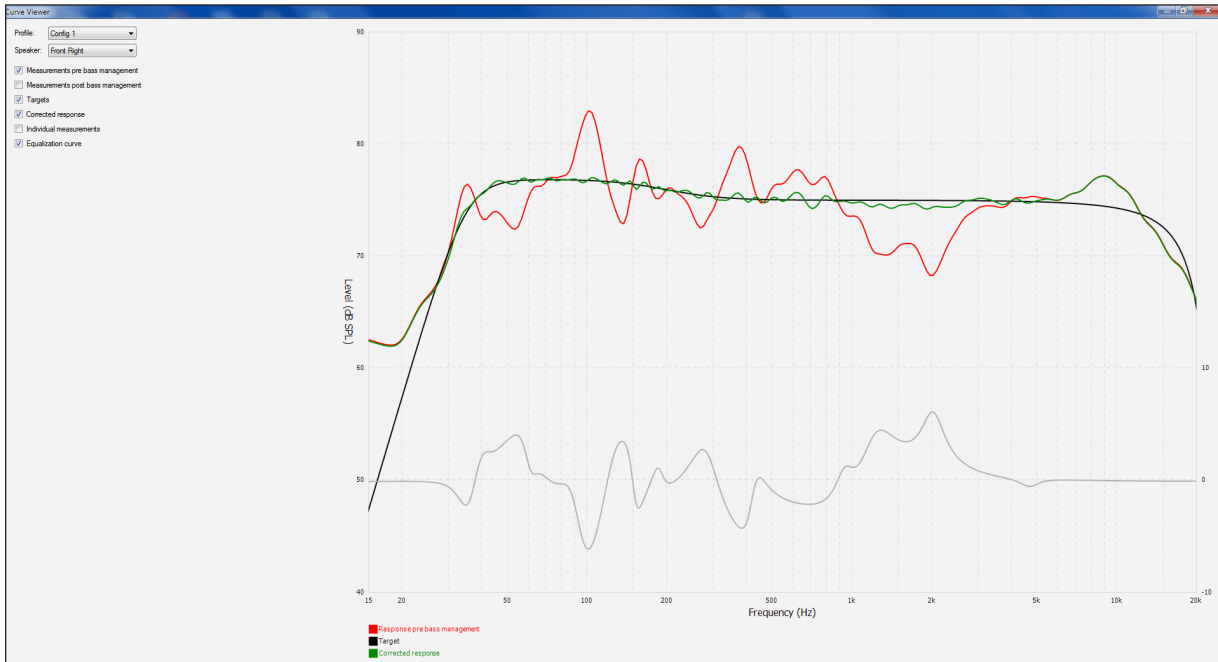
Viewing graphs for the first time may cause temptation to immediately change targets. There is rarely a good technical reason to do so. If you are not satisfied with initial results, examine the red pre-correction measurement curve. It shows how your system performed all along without room correction. Does this reflect the general performance expected from your speakers, especially in the bass? If not, do not try to compensate through electronic correction. It bears repeating that it is not meant at all to be a substitute for proper speaker positioning, nor can it reliably force your speakers to do something they weren't designed to do. Its purpose is to take performance to a higher level after the traditional good practices that existed before room correction have been fulfilled.

The following is a classic case of what not to do - an attempt to turn a "full-range" speaker's woofer into a subwoofer by manually lowering the equalization cutoff from 35 Hz to 25 Hz and the slope from fourth order to a more gradual third order. Such changes are very unlikely to end well. The extra stress on the speaker from approximately 20 Hz to 30 Hz could easily lead to woofer and/or crossover damage from overextension or overheating (+6 dB equates to four times the power). The amplifier will also generate more heat, something that is not good for any electronic device.

Always avoid forcing the green curve to be higher than the red or purple ones in the manner shown here:



In contrast, this is the same measurement with the original targets that were automatically detected and set by ARC. Notice how the left side of the target curve complies to the speaker's natural rolloff:



MAX EQ FREQUENCY

The default correction range is 5 kHz. This may be lowered for experimentation or comparison.

ROOM GAIN

If you wish to experiment by flattening room gain, you can try it by setting this to 0 dB. Note that auto-detected room gain will be at or near 0 dB if bass absorbers are used or if the speakers are light on bass extension.

Alternatively if you would like to increase or decrease bass, this is the best place to do so if using a subwoofer since a good sub-mains transition will be maintained.

4.7 ADVANCED SUBWOOFER TARGETS

Use of these controls is recommended only for the advanced user who understands the subwoofer's capabilities and behavior when fed low frequencies at high levels. As always, check whether changes are worthwhile by listening to a variety of source material before and after modifying targets.

SUBWOOFER HIGH PASS ORDER

Change the low-end slope only if for some reason the auto-detected one doesn't match the low-end rolloff of the measured response. The left side of the red or purple measured curve is the guideline for shaping the target curve. As mentioned earlier, an attempt to use this as a means of extending low-frequency output beyond the speaker's capability will be detrimental.

SUBWOOFER HIGH PASS FREQUENCY

Use this in conjunction with High Pass Order when manually creating a curve for the lower end of the subwoofer's response.

MINIMUM SUBWOOFER EQ FREQUENCY

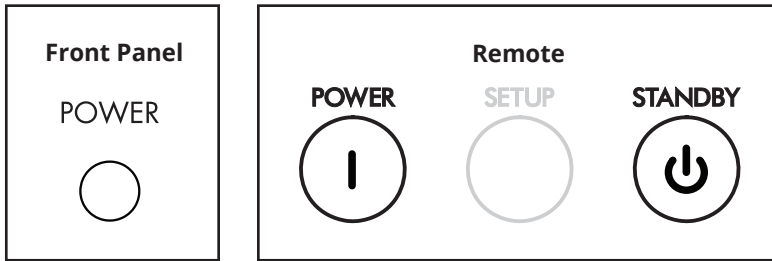
Change this only if you would not like for ARC to equalize the subwoofer channel below a certain frequency.

4.8 PRINTING A REPORT

To print a copy of your graphs and targets, click on Print. For a preview, click on File then Print Preview.

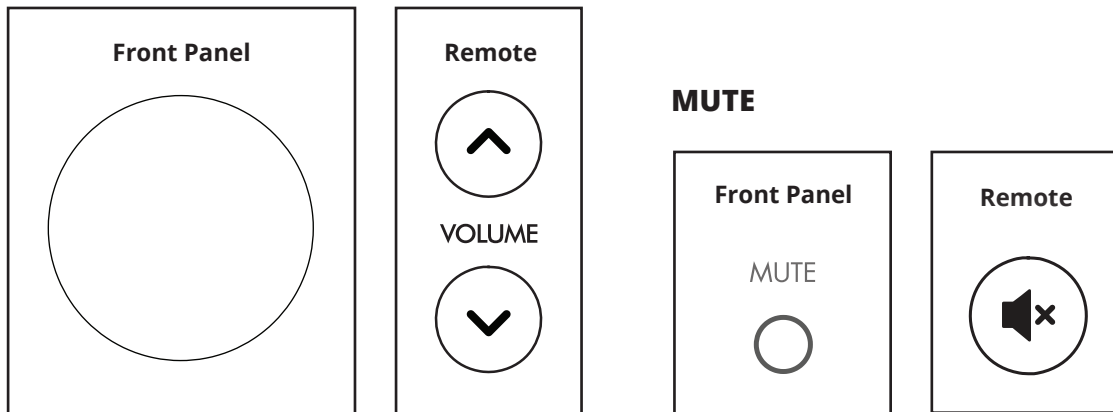
5.1 POWER ON / OFF AND VOLUME

During power-on and power-off a mechanical click is produced from the unit – this is normal. Volume comes on according to setup menu setting.



To control volume rotate the front panel knob or press VOL up/down on the remote control. To mute or un-mute the audio, press MUTE.

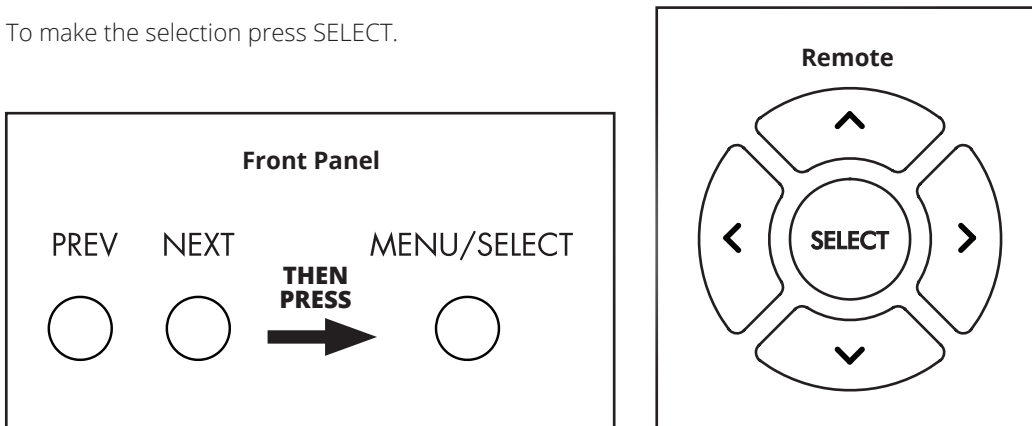
VOLUME



5.2 INPUT SELECTION

The number of active inputs varies according to how the Input Setup menu was programmed. To scroll through the active inputs and view them on the display, press the left/right buttons on the remote control or PREV/NEXT on the front panel.

To make the selection press SELECT.



To see the current input, press INPUT on the remote control.

5.3 LEVELS

Through this menu, subwoofer level, bass, treble, and balance can be adjusted.

Levels	
Subwoofers	0.0 dB
Bass	0.0 dB
Treble	0.0 dB
Balance	Centered

To access this menu from the front panel, start by pressing MENU/SELECT.

To access this menu from the remote, start by pressing  to display this menu:

Audio Menu
Levels
Mode

After selecting Levels, press NEXT.

Cycle through the options using the up/down buttons on the remote control or the volume control on the front panel and follow the help line at the bottom of the display.

If the subwoofer(s) occasionally sounds too loud or soft according to source material, its level can be adjusted on the fly. The same can be done for tone and balance as needed.

Note that these adjustments are not meant for system calibration, which is handled in the setup menu and by Anthem Room Correction. Also note that Bass does not affect the subwoofer output, which is handled by the Level adjustment.

5.4 LISTENING MODES

Through this menu, the listening mode can be selected on the fly. Refer to the Input Setup section for a description of listening modes. If you wish, you can make a different selection after pressing MODE on the remote control or MENU/SELECT on the front panel.

Listening Mode
Stereo
Mono
Both = Left
Both = Right

To access this menu from the remote control, press MODE. The remaining steps, and access from the front panel, are similar to those in the preceding section.

5.5 INFO DISPLAY

Pressing INFO on the remote shows the input name, ARC status, input format, and listening mode on the display in addition to volume. To hide this info, press INFO again.

THE BIG PICTURE - FRONT PANEL



THE BIG PICTURE - REAR PANEL



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

Please register your product at www.anthemAV.com

The warranty period begins on the date of purchase from Anthem or an Authorized Anthem Dealer. This warranty is offered only to the original owner and is not transferable. Demonstration and display units are covered by the same warranty except that the period commences on the date of dealer invoice, not the purchaser's invoice, and cosmetic flaws are excluded.

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.

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.

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