



Signature **MPA 2250**

Monster Home Theater Music
Two Channel Reference Power Amplifier

Signature **MPA 3250**

Monster Home Theater Music
Three Channel Reference Power Amplifier

Owner's Manual

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IMPORTANT SAFETY INSTRUCTIONS

Please read and observe the following safety points at all times:

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- 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 are provided for your safety. This plug is designed to be inserted into a grounded outlet only. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus. Since the power cord is the method of connection and disconnection to AC mains supply, it must remain readily operable to provide a means of disconnection.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus from its power source during lightning storms or when unused for long periods of time.
- 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.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture

Additional Manufacturer Warnings

WARNING – Power Sources

DO NOT plug this apparatus into a power outlet that differs from the source indicated for safe use. If you don't know the type of electrical power that is supplied to your home, please consult your local power company.

WARNING – Cord Safety

A. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus. When routing your Monster Reference Home Theater Music Power Amplifier AC power cord, do not place it near heavy foot traffic areas (e.g., hallways, doorways, and kitchen floors). Do not create a trip hazard with the power cord.

B. Since the power cord is the method of connection and disconnection to AC mains supply, it must remain readily operable to provide a means of disconnection.

C. Only use attachments/accessories specified by the manufacturer.

WARNING – Grounding and Polarization

Your Monster Home Theater Music Reference Power Amplifier has a three-wire grounding-type AC plug (a three-prong outlet). This plug is designed to be inserted into a grounded outlet only.

A. If this plug doesn't fit your outlet, DO NOT attempt to force it.

B. DO NOT attempt to defeat the grounding feature by using a 3-to-2 prong adapter. Instead, call a local electrician to install a properly grounded outlet.

WARNING – Avoiding Electrical Shocks

A. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not operate near rain or water that's spilled or openly exposed (e.g., bathtub, kitchen or bathroom sink).

B. Do not operate your Monster Reference Home Theater Music Power Amplifier if liquid of any kind is spilled onto or inside the unit.

WARNING – Exposure To Heat

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that product heat. Do not expose your Monster Home Theater Music Reference Power Amplifier to direct sunlight or place it near wall heaters, space heaters, or any enclosed space prone to temperature increase. Please see the section on installation for more information.

If, for any reason, your Monster Home Theater Music Reference Power Amplifier is not operating properly, do not remove any part of the unit for repair. Unplug it and consult this owner's manual for warranty and service information.

INTRODUCTION

Dear Enthusiast:

Thank you for purchasing my Signature Series Monster Home Theater Music Reference Power Amplifier. I started my Signature Series in 2002 by introducing special versions of the Monster Power Automatic Voltage Stabilizer 2000, Home Theater Power Source 7000 and Reference Home Theater PowerCenter 5100. Each of these products represented a breakthrough in performance and affordability and included special enhancements for audiophiles and videophiles who appreciate minute attention to detail and elegant design...all geared towards getting the most from their home theater system.



Now I am introducing my signature line of Monster Reference Home Theater Music Power Amplifiers for those of you who are passionate about movies and music. I've spent years perfecting this design working with renowned audiophile designers Richard Marsh, Demian Martin and the other dedicated professionals at Monster. After countless hours of critical listening and dozens of prototype designs, we have finally completed an amplifier that is good enough to be part of The Head Monster's Signature Series.

The Home Theater Music amplifiers are designed to please the most demanding critical listeners...like me! I like to listen to music LOUD with all the complex harmonics and dynamic range reproduced as accurately as possible. I also like to watch movies and to have the power and responsiveness necessary to reproduce movie soundtracks from the subtlest rustle of leaves to the most violent explosions. It takes a very special amplifier design to satisfy the needs of both home theater and music.

I hope you enjoy your favorite music and movies even more with your new Monster home theater music amps.

Monsterously,

Noel Lee
The Head Monster

P.S. Here are some of the unique features of the Monster Home Theater Music Reference Power Amplifiers:

MONSTER MIRRORED AMPLIFIER TECHNOLOGY™— (MMAT™)

The MPA 2250 two channel, and MPA 3250 three channel amplifiers use a current-feedback topology we call MMAT™ to ensure low distortion and greater clarity even at the highest playback levels. Any signal put into this amp will be mirrored at the output, just amplified, with all details intact. Monster amplifiers employ fully complimentary differential circuits, so the two halves of the amplifier are mirror images of themselves — helping lower noise and distortion.

OTHER CIRCUIT INNOVATIONS

At the input end, a balanced complimentary push-pull stage delivers ultra-wide bandwidth performance for the best reproduction of today's ultra high resolution 192khz DVD-Audio and Super Audio CD formats. Monster amplifiers are specially designed to be stable at high frequencies to support DVD-A and SACD.

At the output end, high current MOSFET output transistors deliver instantaneous current for maximum transient impact. Monster amps provide high current peak delivery for a realistic, exciting home theater and music experience.

SEPARATE POWER SUPPLIES ON EACH CHANNEL

A unique feature of Monster amplifiers, which allow them to outperform any receiver, is that each channel has its own transformer and power supply. Receivers that share a single power supply across all channels will actually deliver far lower power levels than the maximum power rating when all channels are driven. Monster amps won't sag when the power demands are high because they are designed to support the current delivery for each channel independently.

Monster home theater music reference power amps deliver detail, clarity, dimensionality and low distortion sound with powerful bass at virtually any power level.

LOADS OF POWER

Monster home theater music amps deliver 400 continuous watts per channel into 4 ohms with all channels driven (250 watts/channel into 8 ohms). Instantaneous peak power exceeds 500 watts into 4 ohms (300 watts/channel into 8 ohms or 750 watts/channel into 2 ohm loads).

LABORATORY-GRADE DIGITAL POWER METERS

Watch how the power meters jump around with your favorite dynamic music passage or explosive movie scene, and which channels require the most power. That will tell you how much power the amps are delivering and what is required by the material you are listening to. You'll be surprised to see how much power some music and movie transients need to sound as powerful as the composer or director had in mind for the original experience.

Watch the meters as the amplifiers pump out big, powerful, but tightly controlled bass. The separate transformer and power supply on each channel is the key. Big room-energizing bass, properly recreated, gives the sound a sense of space. Give yourself a good view of the meters really jumping with power by playing Telarc International's recording of Tchaikowski's 1812 Overture with Erich Kunzel and the Cincinnati Pops. Just after 14 minutes into the recording, listen to the cannon shots and watch the amp meters show just how much sheer power is required to accurately reproduce one of the biggest and most breathtaking transients in recording history.

THE MONSTER BACKBONE

Monster recently introduced a new way of looking at a total home theater music experience. It all starts with the "polluted" AC power from your wall. Power line noise, spikes, sags, noise from your own components, noise generated from other devices on the same electrical circuit as your system — all of these are detrimental to the audio experience. To achieve the best home theater and music listening experience, you must take steps to ensure that the power delivery to all of your home theater music components is stable and clean.

You can realize a truly amazing home theater music experience if you ensure that the power being delivered to all of your audio and video components is at a stable voltage and filtered from power line noise. Just as the home theater music amplifiers are designed to provide all the power (wattage) that is demanded from movies and music, Monster recommends providing all of the clean and stabilized power (voltage and current) that is needed by your electronics to get all the performance they were designed to deliver.

Voltage stabilization can be achieved by adding a Monster Power Automatic Voltage Stabilizer to your system (AVS2000). "Polluted" power can be cleaned by adding a Monster Power Reference Home Theater PowerSource (HTPS 7000) which will also isolate your components and protect them from electrical spikes and surges.

By addressing the needs of power quality (stabilized, clean power) and power capacity (powerful amplification) from your electronics, you can build the **backbone** for a truly amazing home theater music experience.

THE DESIGN MINDS BEHIND THE MONSTER HOME THEATER MUSIC REFERENCE POWER AMPLIFIERS



Richard Marsh – There are few experts able to solve the complex problems of AC power. Richard Marsh is one of the illustrious few. He has designed best selling power conditioning components costing more than \$3,000 and now brings his expertise to Monster Power. Richard developed Monster’s exclusive Clean Power™ circuitry. He is also responsible for several other groundbreaking designs. Richard’s background and research into amplifier and capacitor design led to his development of the Servo-DC feedback concept in power amplifiers – a concept that is used by virtually every amplifier manufacturer today. His status as both the inventor of the MultiCap™ internal bypass capacitor and as the driving force behind the high-end audio balanced circuit design concept has influenced the audiophile community for years. Richard is responsible for some of the high end audio world’s most respected product designs, essays and articles, and has contributed to Fi, The Absolute Sound and Audio magazines. He is included in *Who’s Who in the West*.



Noel Lee – Noel Lee is best known for popularizing the concept of high performance audio cable over 20 years ago with his creation of Monster Cable. Originally a laser-fusion design engineer at Lawrence Livermore National Laboratory and later a touring musician, Noel has invented or co-invented over 125 U.S. and international patents and drives the explosive growth of The Monster Group into more than 80 countries worldwide. Monster Power is his realization of a long-nurtured vision of making affordable power solutions that deliver the best possible sound and picture.

OVERVIEW

The following information will guide you through the setup and operation of the MPA 2250 Monster Home Theater Music Reference Amplifier. For full Home Theater Music enjoyment please read through this entire manual before proceeding with setup.

BEFORE YOU BEGIN

Please make sure you have the following to best enjoy the high performance of your Monster Home Theater Music Reference Power Amplifier.

- A. This owner's manual.
- B. Your favorite pen or a computer with an Internet browser (for registering your warranty information).
- C. One or more Monster Home Theater Music Reference Power Amplifiers.
- D. Your source equipment, speakers and their owners manuals.
- E. Monster Cable interconnects and Monster Cable speaker cable to connect source components and speakers to your Monster Reference Home Theater Music Power Amplifier(s).

CABLES NEEDED TO CONNECT 5 CHANNELS OF AMPLIFICATION

- A. 5 individual Monster Cable, M-Series, Z-Series or Sigma Audio Interconnects – length determined by your system rack. Connector type determined by your receiver/preamp.
- B. 5 runs of Monster Speaker Cable – length determined by the size of your room and speaker placement.

If your Receiver/Preamp has a remote trigger out:

- A. 2 runs of 1/8" -to-1/8" mono mini cable included with the amplifier.

If your receiver does not have a remote trigger out:

- B. 1 run of 1/8" -to-1/8" mono mini cable and a 3-30v power transformer included with the amplifier.

UNPACKING THE AMPLIFIERS

Take care in unpacking your new Monster amplifier so as not to scratch or damage the unit. Monster recommends saving the box should you ever need to move it or return it for any reason.

While unpacking please make note of the enclosed items and set them aside.

Items Included

1 Ea	Copy of this Manual
1 Ea	1/8" -to-1/8" mono mini remote trigger cable
1 Ea	DC Power Transformer to be used as a remote trigger if needed
1 Pr	Front Rack Mounting Ears
1 Pr	Rear Rack Mounting Bracket
1 Set	Screws for Rear Rack Brackets
1 Ea	PL 400 IEC - type AC Power Cord

INSTALLATION GUIDELINES

Before placing, connecting and using your new Monster Home Theater Music Reference amplifier, please read through these guidelines to familiarize yourself with the installation specifications.

HEAT DISSIPATION

The Monster Amp is a high current design, and like all amplifiers, will produce heat under normal operating conditions.

To maintain proper operation of your amplifiers:

DO NOT stack your amplifiers in an enclosed environment such as closets or completely enclosed audio racks.

When placing your amplifier into your audio system allow 3" of clearance on the top and 2" of clearance on each side to help disperse the heat. Each amplifier should be placed on a separate shelf with space above and to the sides.

If the amplifiers are required to be mounted in an enclosed environment, the use of a fan is recommended to remove excess heat from the enclosure.

DO NOT place amplifiers directly on carpeted floors.

An amplifier placed on carpeting restricts the flow of air from the bottom and causes the amplifier to heat up prematurely. This may also pose a safety hazard because the carpeting may come in direct contact with the amplifier's chassis which is a source of heat.

AC POWER LINE

The Monster Amplifiers are designed to operate from a 120V 60Hz AC power line. Connection is made through a heavy duty grounded power cord. For safety and proper operation DO NOT remove the ground pin, cut the power cord or use a ground lifting adapter.

For proper operation and the best possible sound, Monster recommends using a Monster Power Reference Home Theater PowerCenter to deliver clean AC power to protect your Monster Amplifiers from surges and spikes on the AC power line. Consult your Monster dealer for information or visit www.monsterpower.com.

AUDIO CONNECTIONS

When purchasing cables to connect your Monster Power Amplifier to your system, make sure the cables are long enough to have some slack between components. DO NOT stretch the cables tightly between components. Cables should be of sufficient length so that they are not pulled around shelves or other components.

Speaker cables for the Front Left, Center and Front Right should be of equal length to maintain best delivery of sound. The Rear Right and Rear Left should also be of equal length even if the cables runs allow one to be shorter than the other.

OUTPUT METERS

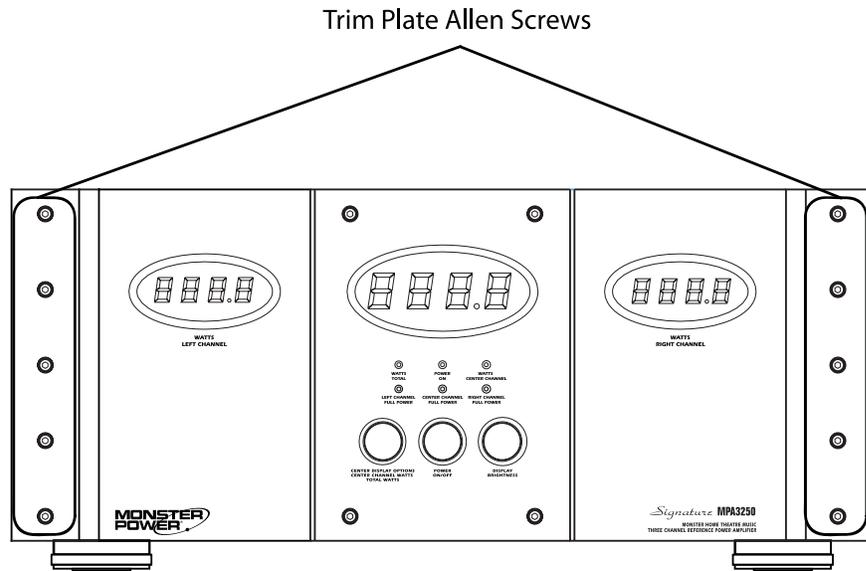
One of the major features of the Monster Home Theater Music Reference Amplifiers are the laboratory-grade digital meters. The meters show the current output of the channel indicated in watts.

Monster recommends that the MPA3250 3 channel amplifier be used for the front channels, and the MPA2250 for the rear channels. When positioning the amplifiers on shelving or in a rack, it is recommended that the MPA3250 be above the MPA2250. This allows the meters to be used as a floor plan of the speakers as they are connected to your system.

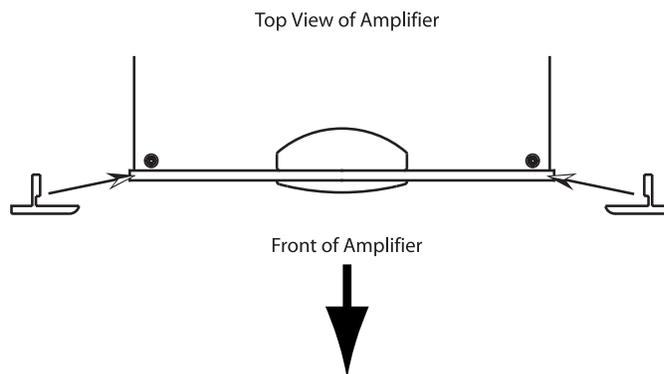
RACK MOUNTING

Your new Monster power amplifier comes with front and rear rack mounting for installing in equipment racks. The front rack ears are separate from the unit and must be installed prior to rack mounting. Please follow these instructions to mount your monster amplifier into a rack.

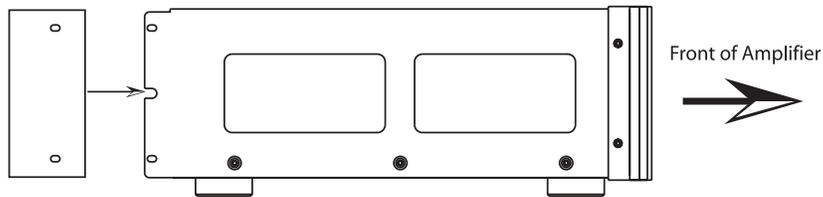
1. Remove the 10 Allen screws that secure the outer trim plates of the amplifier and set them aside. Take care when removing to not scratch the rack ears or face plate.



2. Attach the rack ears by placing them along side each side of the amplifier. There is a small metal strip on the back of each rack ear that should be flush with the side of the amplifier.



3. Carefully replace the 5 Allen screws on each side. Make sure that the screws are tight. Take care when tightening to not over tighten the screws.
4. Carefully place the amplifier into the rack. Hold in position and tighten the front screws while continuing to support the amplifier.
5. Adjust the depth of the rear rack bracket to match the rails at the back of the rack.
6. Attach the rear rack brackets to the amplifier. Continue to support the amplifier until the rear rack brackets are secured to both the unit and the rack.



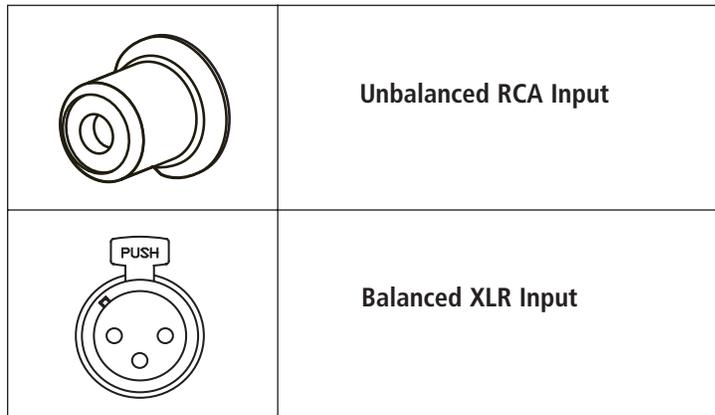
CONNECTION GUIDE

The following section will guide you through the steps required to connect your Monster Power Amplifiers to the rest of your system. Read through this section carefully before connecting.

This section has been broken into steps for each amplifier. For a complete system diagram see Appendix A.

INPUT CONNECTIONS

- A.** The Signature Monster Amplifiers provide both unbalanced (RCA) type and balanced (XLR) type connections for use with a variety of systems. Should your Receiver/preamp Processor have both types of connections, Monster recommends using balanced connections for cleaner more accurate sonic reproduction. Please refer to your Receiver/preamp Processor owners manual for the available connection types.



⚠ CAUTION: Never connect both balanced and unbalanced to the same input. Damage to components may occur.

For unbalanced RCA type connections please follow Step 1A for each amplifier.

For balanced XLR type connections, please follow Step 1B for each amplifier.

- B.** Input connections are marked with the channel name they are intended for. In some situations the channel input may be from a different channel. Please make note of which channel you use if a channel other than the one marked is used.

In addition to naming them, the inputs are marked by color in the following manner.

RED	Right Channel
GREEN	Center Channel
BLUE	Left Channel

SPEAKER CONNECTIONS

Just like the inputs, speaker connections are labeled with the channel name as well as being color coded.

⚠ CAUTION: : When connecting speakers all polarity markings must be followed exactly or damage can occur to components.

RED	Positive +
BLACK	Negative -

⚠ Never make audio connections when power is applied to the amplifiers or any other component.

To prevent damage to the Monster Amplifiers and other components, never make connections when power is applied. Connect amplifiers to AC power last to ensure damage will not occur.

TRIGGER CONNECTIONS

The Monster Home Theater Music Reference Power Amplifiers feature remote trigger input and output to turn the amplifier on/off with the receiver/preamp. These connections use a 1/8"-to-1/8" mono mini cable included with the amplifier. For a receiver/preamp that does not have a remote trigger out, a power transformer is included with the amplifiers

as well. Refer to the amplifier specifications page for more information.

The remote trigger works on 3-30v AC/DC and the remote trigger out is 12V DC.

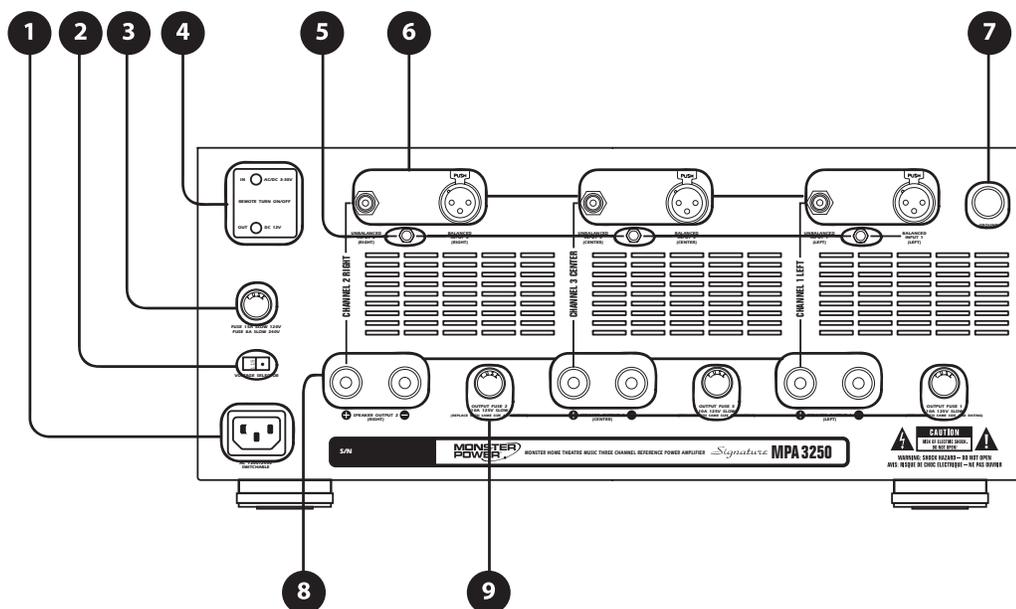
KNOWING THE CONNECTIONS

Before continuing with the connection of the Monster Power Amplifiers, please familiarize yourself with the amplifier back panel. This will allow you to make the proper connections, prevent damage and ensure you get the most enjoyment from your amplifiers.

Once you are familiar with the back panels follow the steps provided in the connection guide in order.

AMPLIFIER CONNECTIONS

MPA3250 REAR PANEL

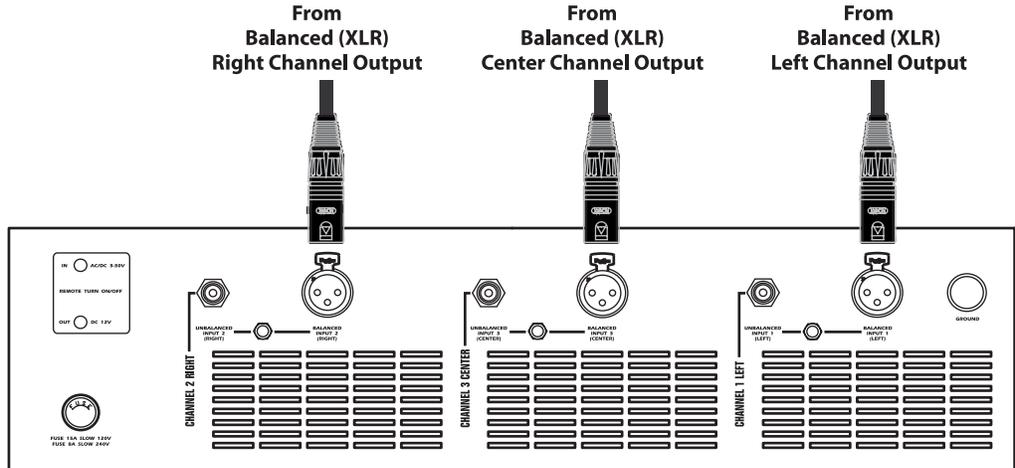


- 1. AC Power Receptacle** – Connect to your AC power line from the wall using the supplied power cord. Monster recommends connecting all electronic components to a Monster PowerCenter for clean, noise free AC power and protection for system components.
- 2. Voltage Selection Switch** – Selects the power voltage for use on a variety of AC lines. Make sure that this switch is set to the proper voltage for your location. In the US, standard AC power is 110V. Be sure to use the proper AC power cord for your country.
- 3. Main Power Fuse** – 12A Slow-Blow fuse protects the amplifier from power overload. Replace only with same type fuse.
- 4. Remote On/Off** – Allows amplifier to be turned On or Off when receiver or preamp is turned On or Off for one touch operation.

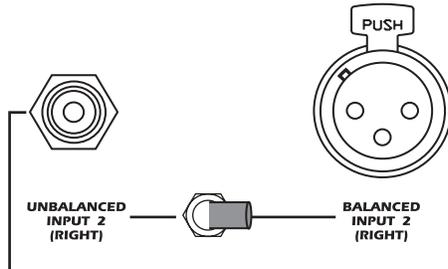
One trigger cable and one power transformer are included with each amplifier.
- 5. Input Type Switch** – Selects between the unbalanced and balanced input for each channel. Verify that the switch is at the proper setting for the type of input used.
- 6. Amplifier Input** – Monster has provided both Unbalanced (RCA) and Balanced (XLR) inputs to match a variety of products.
- 7. Grounding Connection** – Connection to ground for other units in the system. If using Monster Power units, connect the amplifier ground posts to their ground posts to maintain the lowest possible noise floor.
- 8. Speaker Terminals** – Binding posts allow for multiple types of speaker connections.
- 9. Channel Fuses** – 8A 125V Slow-Blow fuse protects the individual amplifier channel from power overload. Replace only with same type fuse.

STEP 1B For Balanced XLR type connections.

1. Connect one end of the balanced XLR type interconnects to the preamp outputs of the receiver/preamp you wish to use.
2. Connect the other end of the balanced interconnects to the appropriate channel inputs on the MPA 3250.

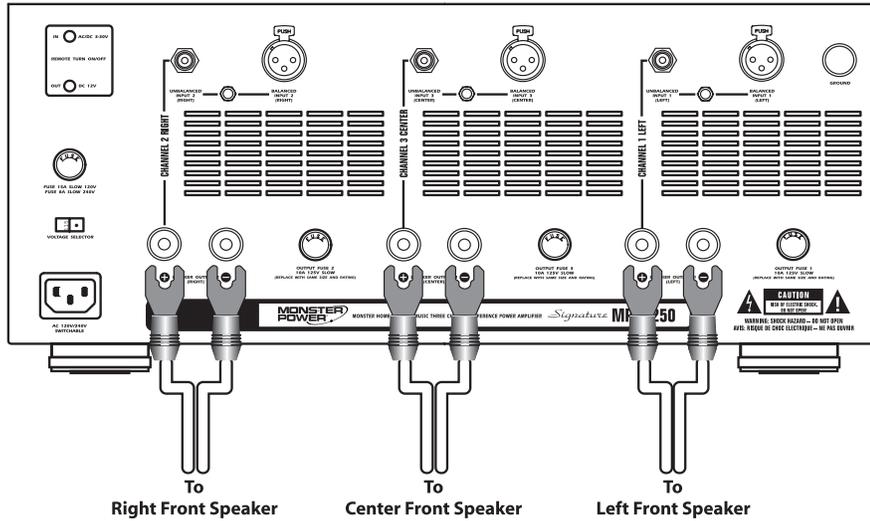


3. Set all Input Type Switches towards the Balanced Input.



STEP 2 Speaker Connections

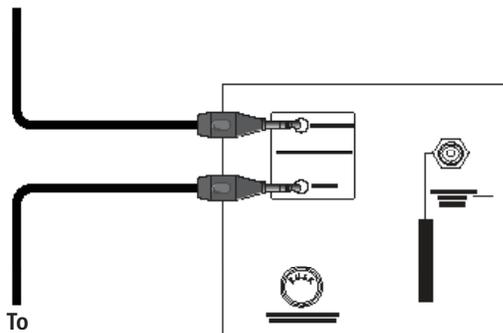
1. Connect one end of each speaker cable to the Left, Center, and Right speaker terminals on the MPA 3250. Make sure to follow the markings for Positive and Negative to maintain proper speaker polarity.
2. Connect the other end of each speaker cable to the appropriate speakers. Make sure to follow the markings for Positive and Negative to maintain proper speaker polarity.



STEP 3 Remote Trigger Connections

1. Connect one end of the 1/8"-to-1/8" mono mini cable to the remote output of your receiver/preamp.
2. Connect the other end of the 1/8"-to-1/8" mono mini cable to the remote trigger in of the MPA3250.
3. When using the MPA 2250, connect the remote trigger out of your receiver to the trigger in on the MPA 3250. Should your receiver not have a remote trigger out, the 12V power transformer can be plugged into the switched AC outlet on the back of your receiver.
4. Should you have another component in your system that uses a 12V trigger in, you can connect the remote trigger output of the MPA 3250 to the remote trigger in of this component.

From Receiver/ Preamp
Remote Trigger
Out



To
MPA 2250, Extra Amp,
or Accessory Trigger In

STEP 4 AC Power Connections

⚠ Monster amplifiers can be run at 115V or 230V. Verify that the voltage switch is in the correct position for your location. In the US this should be set to 115V.

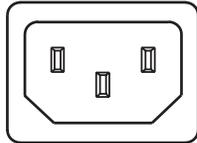
1. Set the AC power selector switch to the proper voltage.



FUSE 12A SLOW 120V
FUSE 6A SLOW 240V

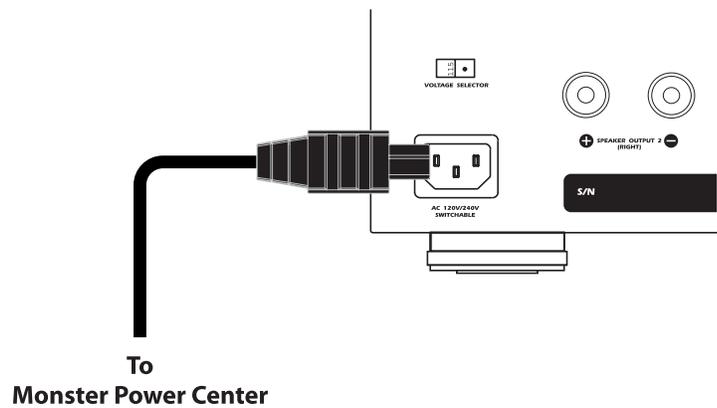


VOLTAGE SELECTOR



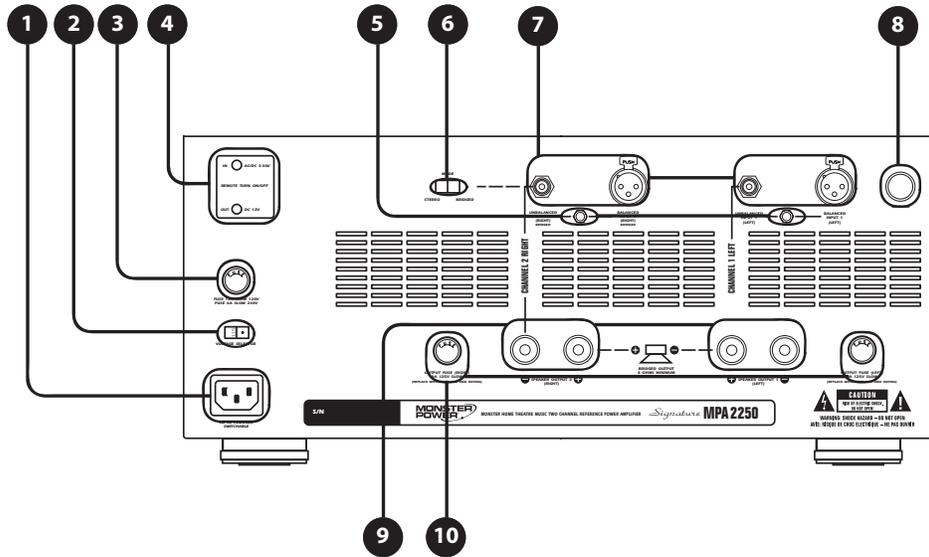
AC IN 120/240V
SWITCHABLE

2. Connect one end of the supplied Monster AC power cord to the MPA3250.
3. Connect the other end into the wall or Monster Power Center.



MPA 2250 CONNECTIONS

MPA2250 REAR PANEL



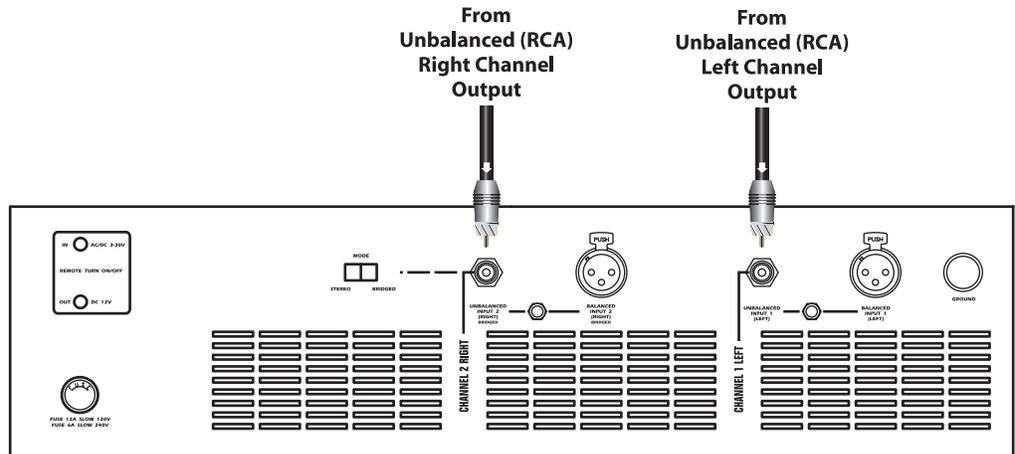
1. **AC Power Receptacle** – Connect to your AC power line from the wall using the supplied power cord. Monster recommends connecting all electronic components to a Monster PowerCenter for clean, noise free AC power and protection for system components.
2. **Voltage Selection Switch** – Selects the power voltage for use on a variety of AC lines. Make sure that this switch is set to the proper voltage for your location. In the US, standard AC power is 110V. Be sure to use the proper AC power cord for your country.
3. **Main Power Fuse** – 12A Slow-Blow fuse protects the amplifier from power overload. Replace only with same type fuse.
4. **Remote On/Off** – Allows amplifier to be turned On or Off when receiver or preamp is turned On or Off for one touch operation.

One trigger cable and one power transformer are included with each amplifier.
5. **Input Type Switch** – Selects between the unbalanced and balanced input for each channel. Verify that the switch is at the proper setting for the type of input used.
6. **Bridged Mono / Stereo Selection Switch** – Set this switch to Stereo for normal operation and Bridged Mono to bridge the amplifier into one channel.
7. **Amplifier Input** – Monster has provided both Unbalanced (RCA) and Balanced (XLR) inputs to match a variety of products.
8. **Grounding Connection** – Connection to ground for other units in the system. If using Monster Power units, connect the amplifier ground posts to their ground posts to maintain the lowest possible noise floor.
9. **Speaker Terminals** – Binding posts allow for multiple types of speaker connections.
10. **Channel Fuses** – 8A 125V Slow-Blow fuse protects the individual amplifier channel from power overload. Replace only with same type fuse.

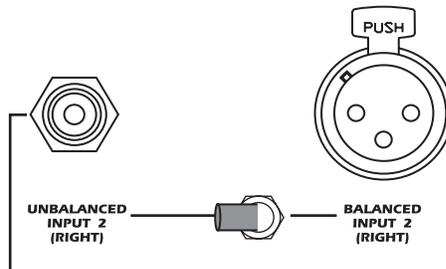
MPA 2250 CONNECTIONS

STEP 1A For Unbalanced RCA Connection

1. Connect one end of the unbalanced RCA type interconnects to the Left and Right channel preamp outputs of your receiver or preamp processor.
2. Connect the other end of the unbalanced interconnects to the appropriate channel inputs on the MPA 2250.

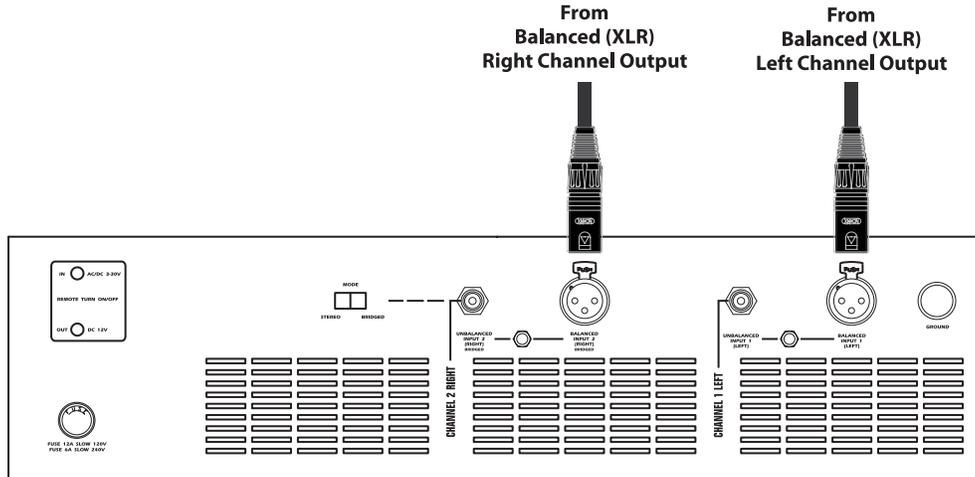


3. Set Input Type Switch towards the Unbalanced Input for each input.

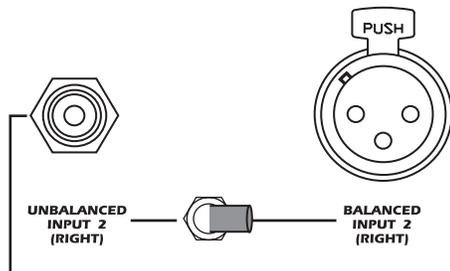


STEP 1B For Balanced XLR Connections

1. Connect one end of the balanced XLR type interconnects to the Left Rear and Right Rear channel preamp outputs of your receiver/preamp.
2. Connect the other end of the balanced interconnects to the appropriate channel inputs on the MPA 2250.

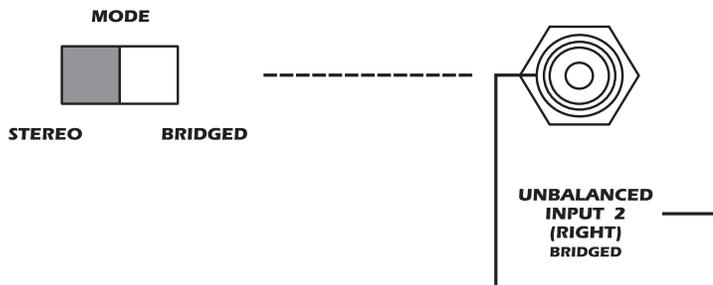


3. Set Input Type Switch towards the Balanced Input for each input.



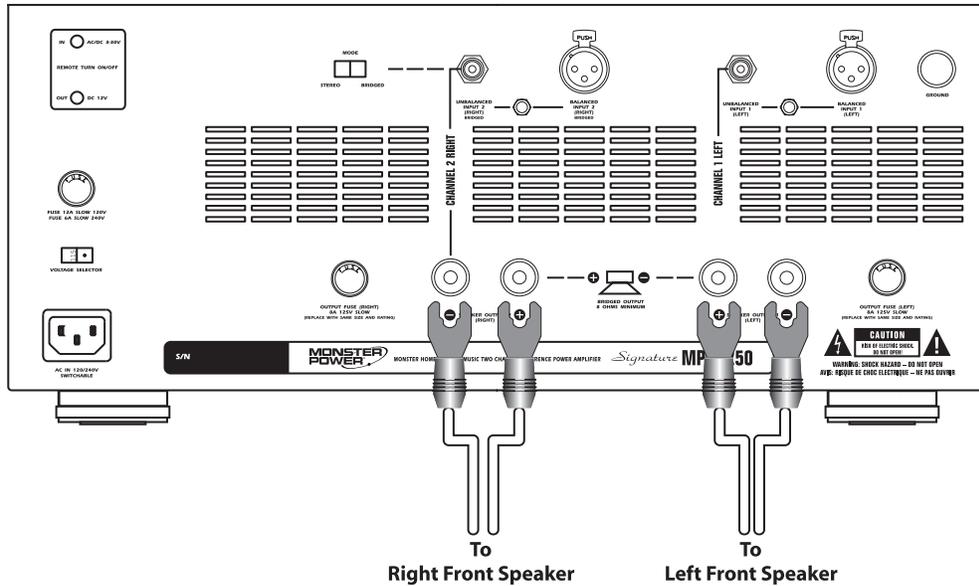
STEP 2 Bridged Mono / Stereo Switch

1. Set bridged mono / stereo switch to the stereo position.



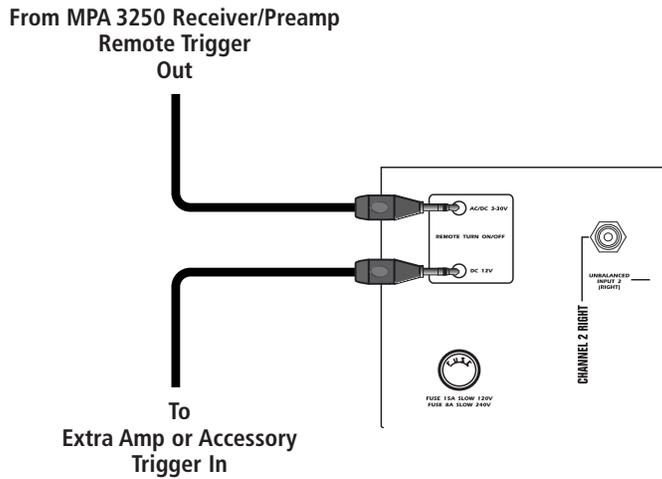
STEP 3 Speaker Connections

1. Connect one end of each speaker cable to the Left and Right speaker terminals on the MPA2250. Make sure to follow the markings for Positive and Negative to maintain proper speaker polarity.
2. Connect the other end of each speaker cable to the appropriate speakers. Make sure to follow the markings for Positive and Negative to maintain proper speaker polarity.



STEP 4 Remote Trigger Connections

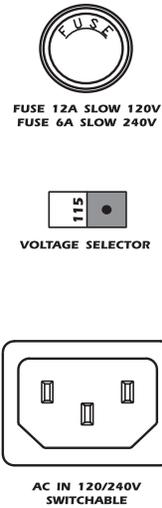
1. Connect one end of the 1/8"-to-1/8" mono mini cable to the remote output of your receiver/preamp (or MPA 3250). Should your receiver not have a remote trigger out, the 12V power transformer can be plugged into the switched AC outlet on the back of your receiver.
2. Connect the other end of the 1/8"-to-1/8" mono mini cable to the remote trigger in of the MPA 2250. If you are using the 12V power transformer, connect the end with the 1/8" mono mini jack to the remote trigger in of the MPA 2250.
3. Connect one end of the 1/8"-to-1/8" mono mini cable to the remote output of the MPA 2250 and the other end to the component you wish to control.



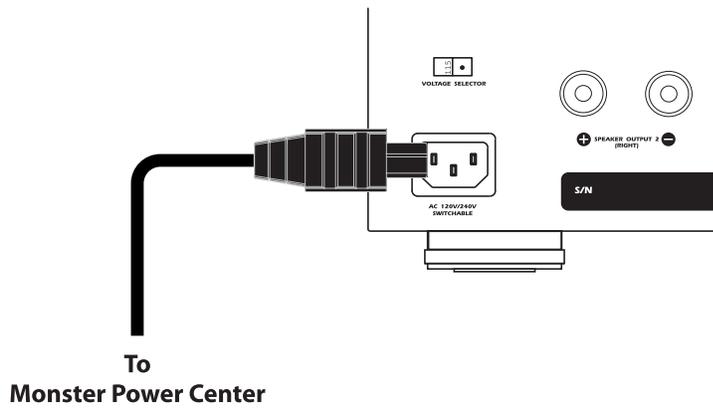
STEP 5 AC Power Connections

⚠ Monster amplifiers can be run at 115V or 230V. Verify that the voltage switch is in the correct position for your location. In the US this should be set to 115V.

1. Set the AC power selector switch to the proper voltage.



2. Connect one end of the supplied Monster AC power cord to the MPA3250.
3. Connect the other end into the wall or Monster PowerCenter.

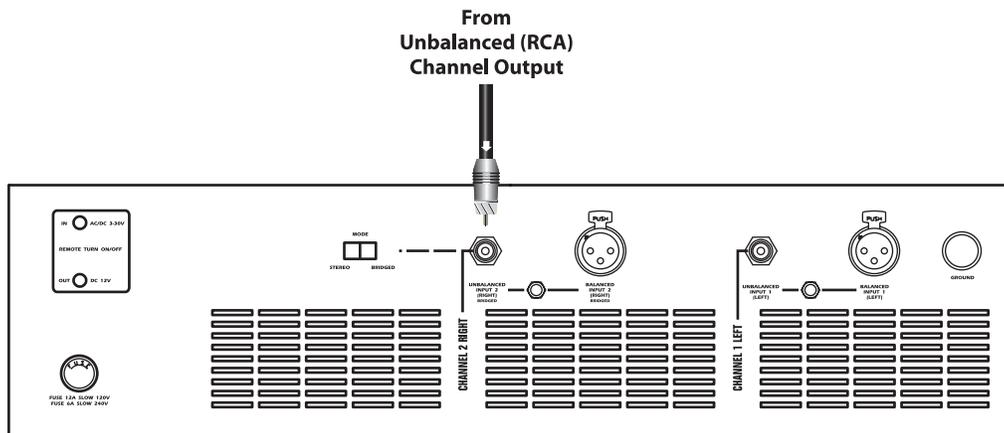


MPA 2250 BRIDGED MONO CONNECTIONS

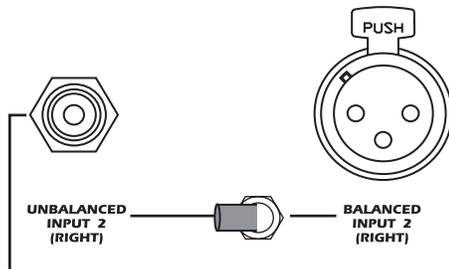
The MPA 2250 is designed to be used in a 2 channel system; in some of these systems more power may be required. In that case, two MPA 2250 amplifiers can be used in bridged mono mode which doubles the power output of the amplifiers. The following diagram shows how to make the connections.

STEP 1 Unbalanced RCA Connections

1. Connect one end of the unbalanced RCA type interconnect to the preamp output of your receiver/preamp.
2. Connect the other end of the unbalanced interconnect to the right channel input on the MPA 2250.

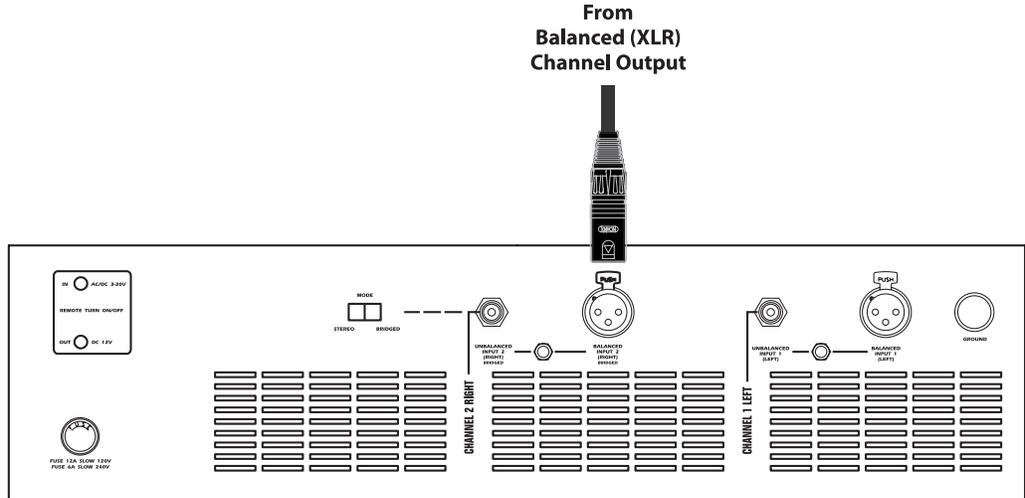


3. Set Input Type Switch towards the Unbalanced Input.

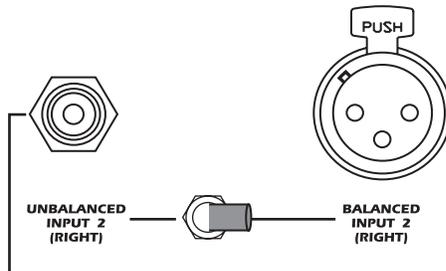


STEP 1B Balanced XLR type connections

1. Connect one end of the balanced XLR type interconnect to the preamp output of the receiver/preamp you wish to use.
2. Connect the other end of the balanced interconnect to the right channel input on the MPA 2250.

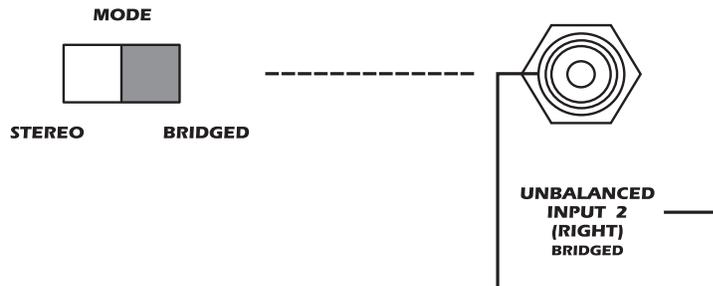


3. Set Input Type Switch towards the Balanced Input.



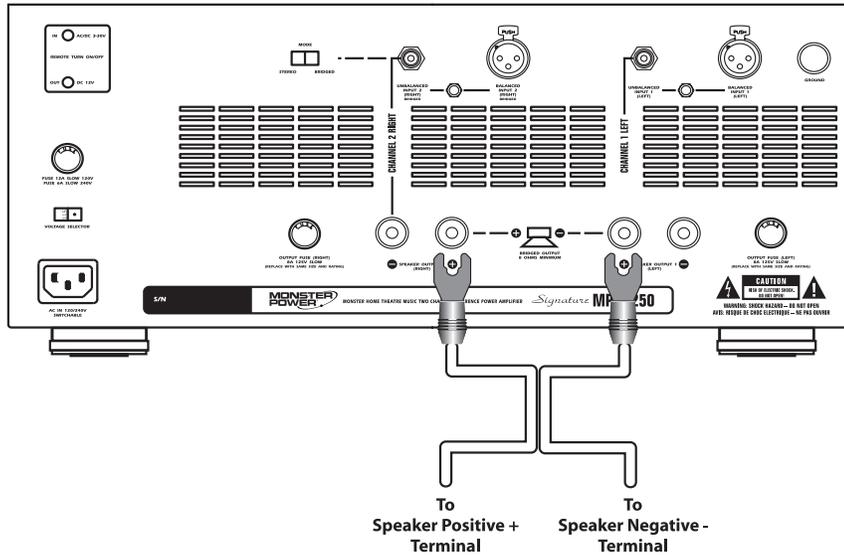
STEP 2 Bridged Mono/Stereo Switch

1. Set bridged mono/stereo switch to the bridged position.



STEP 3 Speaker Connections

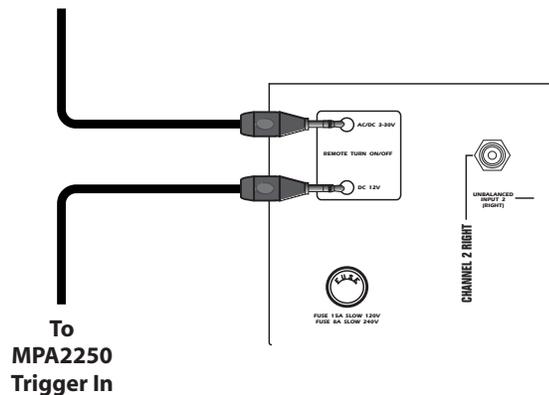
1. Connect the positive terminal from the speaker to the right channel positive terminal of the MPA 2250.
2. Connect the negative terminal from the speaker to the left channel positive terminal of the MPA 2250.



Remote Trigger Connections

1. Connect one end of the 1/8" -to-1/8" mono mini cable to the remote output of your receiver/preamp (or MPA 3250). Should your receiver not have a remote trigger out, the 12V power transformer can be plugged into the switched AC outlet on the back of your receiver.
2. Connect the other end of the 1/8" -to-1/8" mono mini cable to the remote trigger in of the MPA 2250. If you are using the 12V power transformer, connect the end with the 1/8" mono mini jack to the remote trigger in of the MPA 2250.
3. Connect one end of the 1/8" -to-1/8" mono mini cable to the remote output of the MPA 2250. Connect the other end to the remote trigger in of the other MPA 2250. See MPA 2250 Connections for more information.

From Receiver/ Preamp (or MPA 3250) Remote Trigger Out



STEP 5 AC Power Connections

⚠ Monster amplifiers can be run at 115V or 230V. Verify that the voltage switch is in the correct position for your location. In the US this should be set to 115V.

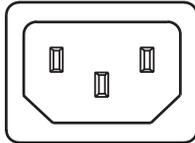
1. Set the AC power selector switch to the proper voltage.



FUSE 12A SLOW 120V
FUSE 6A SLOW 240V

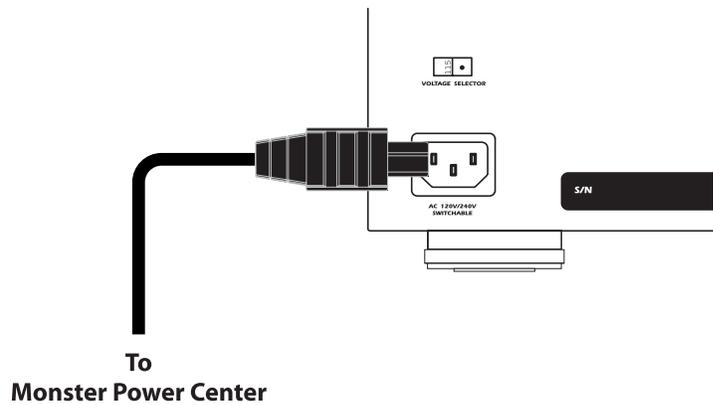


VOLTAGE SELECTOR



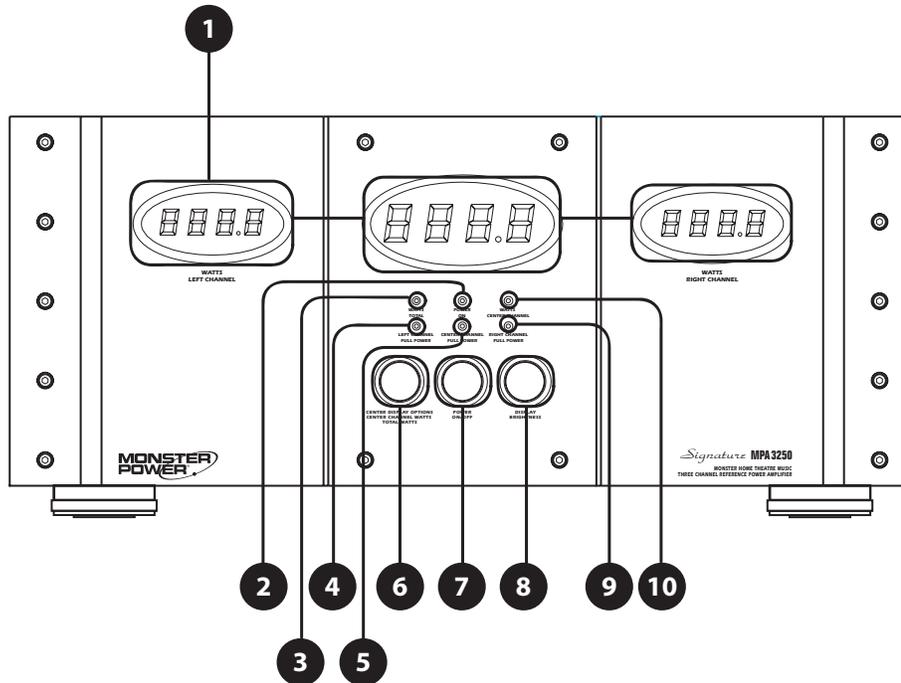
AC IN 120/240V
SWITCHABLE

4. Connect one end of the supplied Monster AC power cord to the MPA2250.
5. Connect the other end into the wall or Monster Power Center.



MPA3250 OPERATION

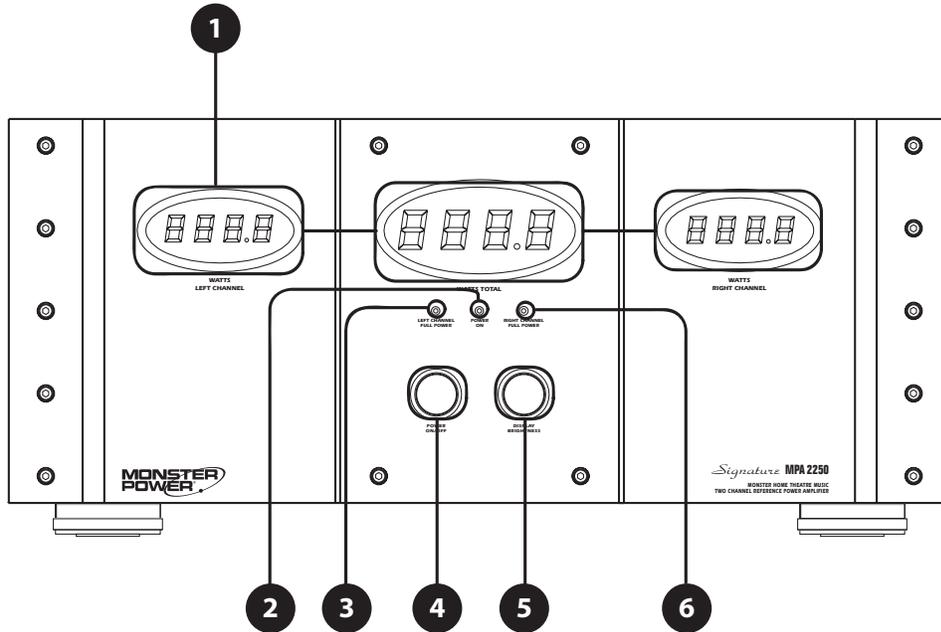
MPA3250 FRONT PANEL



1. **Channel Output Power Meters** – Shows the current power output in watts for the Left, Center and Right Channels respectively.
2. **Power Indicator** – Illuminates blue when amplifier is powered ON.
3. **Center Meter/Watts Total Indicator** – When this LED is lit, the read out for the center display is total power output for all channels. This is selected with the Center Display selector button.
4. **Left Channel Full Power Indicator** – When this LED is lit, the left channel is at full power. When this LED is ON, volume of receiver/preamp should be decreased.
5. **Center Channel Full Power Indicator** – When this LED is lit, the center channel is at full power. When this LED is ON, volume of receiver/preamp should be decreased.
6. **Center Display Selection** – This button toggles the center display from Center Channel Power Output to Total Power Output for all channels. When displaying Total Power Output, the Watts Total LED will illuminate.
7. **Power Button** – Turns amplifier On/Off. If a remote trigger is being used, this button should not be needed once the amplifier is installed.
8. **Meter Dimmer Control** –increases or decreases the brightness of the Power Output Meters. Meters will brighten through 12 steps and then turn off.
9. **Right Channel Full Power Indicator** – When this LED is lit, the right channel is at full power. When this LED is ON, volume of the receiver/preamp should be decreased.
10. **Center Meter/Center Channel Indicator** – When this LED is lit, the read out for the center display is current power output for the Center Channel. This is selected with the Center Display selector button.

MPA 2250 OPERATION

MPA 2250 FRONT PANEL



- 1. Channel Output Power Meters** – These meters show the current power output in watts for the Left and Right Channels respectively. The center display shows the Total Power Output for both channels.
- 2. Power Indicator** – Illuminates blue when amplifier is powered ON.
- 3. Left Channel Full Power Indicator** – When this LED is lit, the left channel is at full power. When this LED is ON, volume of receiver/preamp should be decreased.
- 4. Power Button** – Turns amplifier On/Off. If a 12V trigger is being used, this button should not be needed once the amplifier is installed.
- 5. Meter Dimmer Control** – Increases or decreases the brightness of the Power Output Meters. Meters will brighten through 12 steps and then turn off.
- 6. Right Channel Full Power Indicator** – When this LED is lit, the right channel is at full power. When this LED is ON, volume of receiver/preamp should be decreased.

TROUBLESHOOTING

The following section lists some basic troubleshooting types should you encounter issues when using your Monster Power Amplifier(s).

Symptom	Possible Cause	Remedy
Amplifier Does Not Turn On	Power Cord Disconnected	Check power cord and connect to AC Line
	Blown Power Fuse	Check Main power fuse on back of amplifier. Disconnect amplifier from AC before removing fuse. Replace with same value fuse only.
	Preamp Remote Trigger Cable Not Connected to Receiver or Preamp	Verify that the remote trigger cable is connected to both the amplifier and the receiver or preamp.
	Remote Trigger Out from Receiver or Preamp Is Incorrect Voltage.	Remote trigger in requires 3-30V AC/DC to turn amplifier ON. If the output of the receiver or preamp remote trigger is not within this range, the amplifier will not turn on.
No Sound from One or More Channels	Input Type Selection switch set to the incorrect input type	Verify that all of the Input Type selection switches are in the correct positions. If using standard RCA connections, the switch should be set to Unbalanced. If using XLR connections, the switch should be set to Balanced.
	Input From Receiver or Preamp is Not Connected	Check Input connections
	Speaker Cables Not Connected to Amplifier or Speakers	Check Speaker connections
	Blown Channel Fuse If they have, replace with the correct type	Verify that the channel fuses have not blown. and value fuse. Check the speaker and connections to the speaker for that channel. Verify there is no short in the connections or the speaker.
Sound Comes Out of Incorrect Speaker Channel	Receiver/Preamp Output Channel Connected to an Incorrect Input Channel on Amplifier	Verify that the receiver/preamp output channel is properly connected to the corresponding input channel on the amplifier.
	Amplifier Output Channel Connected to Incorrect Speaker	Verify that the amplifier output channels go to the correct speakers.

SPECIFICATIONS

MPA2250 SPECIFICATIONS

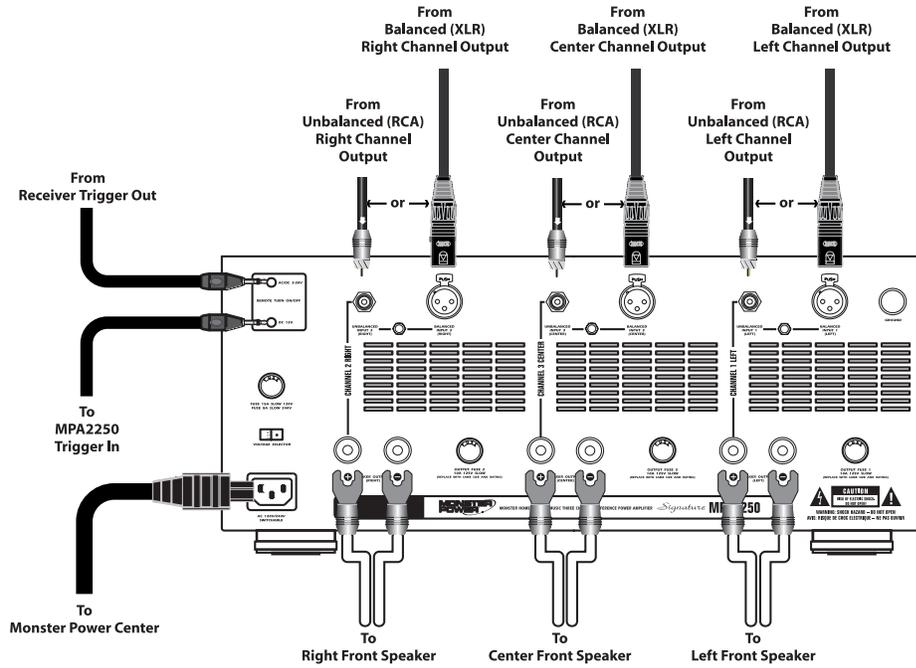
Number of Channels	2 Channels Bridgeable	
Power Output - Stereo	250w @ 8Ω from 20Hz – 20kHz all channels driven	
	400w @ 4Ω from 20Hz – 20kHz all channels driven	
Power Output – Bridged Mono	650w @ 8Ω from 20Hz – 20kHz all channels driven	
THD + Noise	<0.01% at 1 KHz and <0.02% at 20 KHz, at rated power 8 Ohms	
Frequency Response	20 Hz – 20 KHz +/- 0.1 Db	
Signal to Noise	>110 dB from A-weighted below rated power	
Crosstalk	>70db at 20KHz	
Slew Rate	70v/microsecond	
Damping Factor	600	
Input Impedance	50k Unbalanced / 25k Balanced	
Input Sensitivity	1.55v for 250W; 1v for 100W	
Gain	29db	
Bandwidth	300kHz @ 1W - 8Ω Load	
Remote Trigger In	3 – 30v AC/DC 15mA +/- 5mA	
Remote Trigger Out	12V DC 100mA	
Dimensions	Width Without Rack Ears :	17in / 434mm
	Width With Rack Ears:	19in / 484mm
	Height With Feet:	7.75in / 193.5mm
	Height Without Feet:	7in / 177mm
	Depth:	20.25in / 514mm
Weight	Net Weight:	75lbs / 34kg
	Shipping Weight:	88lbs / 40kg

MPA3250 SPECIFICATIONS

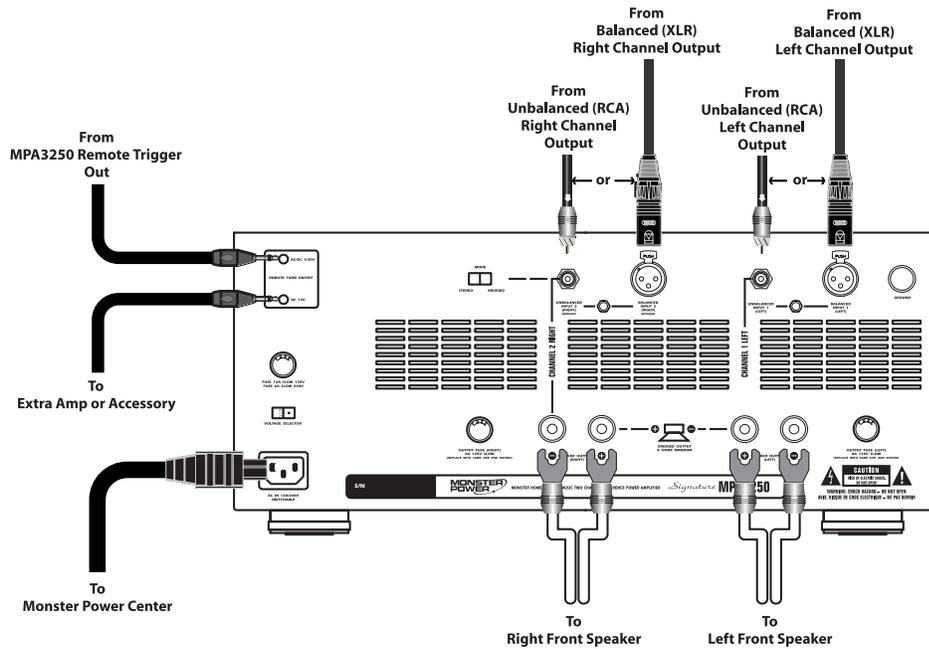
Number of Channels	3 Channels Non Bridgeable	
Power Output - Stereo	250w @ 8Ω from 20Hz – 20kHz all channels driven	
	400w @ 4Ω from 20Hz – 20kHz all channels driven	
THD + Noise	<0.01% at 1 KHz and <0.02% at 20 KHz, at rated power 8 Ohms	
Frequency Response	20 Hz – 20 KHz +/- 0.1 dB	
Signal to Noise	>110 dB from A-weighted below rated power	
Crosstalk	>70db at 20KHz	
Slew Rate	70v/microsecond	
Damping Factor	600	
Input Impedance	50k Unbalanced / 25k Balanced	
Input Sensitivity	1.55v for 250W; 1v for 100W	
Gain	29db	
Bandwidth	300kHz @ 1W - 8Ω Load	
Remote Trigger In	3 – 30v AC/DC 15mA +/- 5mA	
Remote Trigger Out	12V DC 100mA	
Remote Trigger Out	12V DC 100mA	
Dimensions	Width Without Rack Ears :	17in / 434mm
	Width With Rack Ears:	19in / 484mm
	Height With Feet:	7.75in / 193.5mm
	Height Without Feet:	7in / 177mm
	Depth:	20.25in / 514mm
Weight	Net Weight:	92lbs / 41kg
	Shipping Weight:	105.8lbs / 48kg

APPENDIX A – SYSTEM CONNECTION DIAGRAM

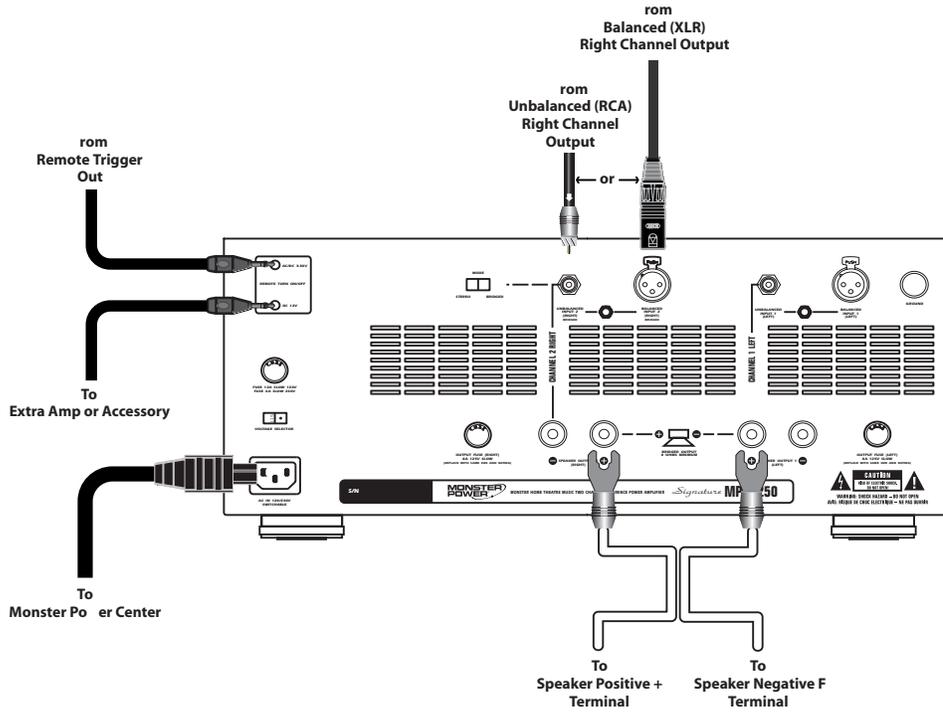
MPA3250 Connections



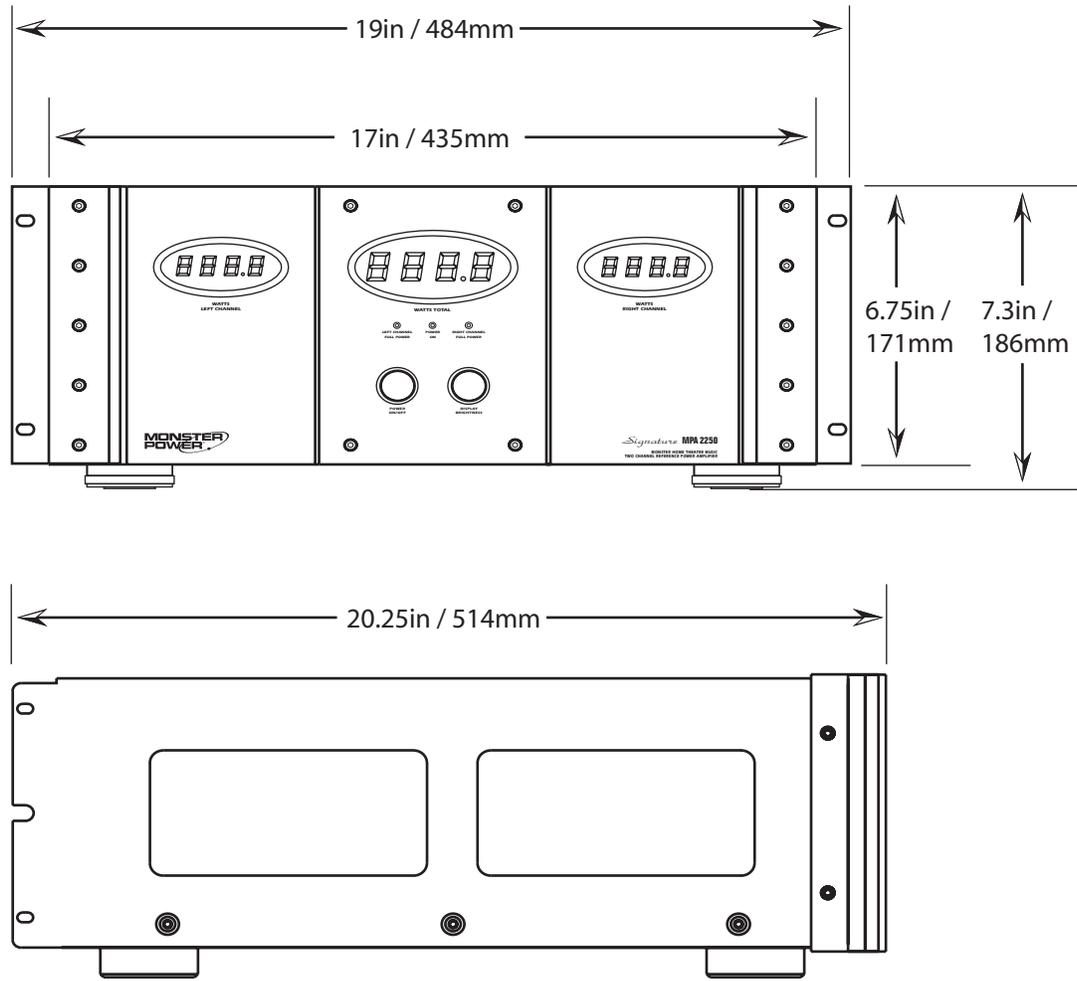
MPA2250 Connections



MPA2250 Bridged Connections



APPENDIX B – AMPLIFIER DIMENSIONS





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