Home Theatre

Reference PowerCenter™ HTS3000

Owner's Manual

IMPORTANT SAFETY PRECAUTIONS

The following information applies to all Monster Power® components including; PowerCenter™ AV800, HT800, HTS800, AV700, HT700, and HTS700; PowerProtect™ AV600 and PC600; and Home Theatre Reference PowerCenter 1000, 2000, 3000 and 5000.

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

⚠ **WARNING–Power Sources**

Do not plug any Monster Power component into a power outlet that differs in voltage from the source indicated for safe use on the Monster Power component and/or power supply.
If you don't know the type of electrical power that is supplied to your home, please consult your local power company.

⚠ **WARNING–Grounding and Polarization**

A. If your Monster Power or Entech component has a three-wire grounding-type AC plug (a three-prong plug), please read the following safety message: This plug is designed to be inserted into a grounding-type outlet only. If this plug doesn't fit directly inside your outlet, do not attempt to force it into the outlet. *Never attempt to dismantle the plug in any way (or to alter an extension cord) to make it fit into a two-prong outlet.* 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.

C. If you use rooftop devices such as satellite dishes, antennas, or any other wire that connects to your PowerCenter, be sure they are properly grounded. Use grounding techniques specified in the National Electrical Code (NEC). This protects against voltage surges and static charges. Do not place any antenna component near overhead power lines, or any other power circuit. Do not touch any power line or power circuit. Doing so may cause you severe physical injury and possibly death.

⚠ WARNING–Power Overload

Do not overload wall outlets, power strips, or PowerCenters beyond the recommended maximum power capacity. Doing so may cause electric shock or fire. Each PowerCenter's recommended maximum power capacity is labeled near the outlets and stated inside each Monster Power owner's manual.

⚠ WARNING–Proper Cleaning

In general, the only cleaning necessary for Monster Power or Entech components is a light dusting. Unplug your component from the wall before cleaning it. Lightly moisten a cloth with water to clean the outside of your Monster Power or Entech component. Do not use any type of liquid or aerosol cleaners.

⚠ WARNING–Liquid: Avoiding Electrical Shock

Do not operate your Monster Power or Entech component if liquid of any kind is spilled onto or inside the unit. Do not operate your Monster Power or Entech component near rain or water, spilled or contained (e.g., bathtub, kitchen or bathroom sink).

⚠ **WARNING–Power Cord Safety**

A. When routing your Monster Power or Entech component's 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. If your power cord's protective jacket begins to rip or fray, exposing the internal wiring, shielding, etc., disconnect it from the power source and discontinue use of the Monster Power or Entech component immediately. See the warranty section of this owner's manual.(page 35)

⚠ **CAUTION–Exposure To Heat**

Do not expose your Monster Power or Entech component to direct sunlight or place it near wall heaters, space heaters, or any enclosed space prone to temperature increase (e.g., car trunk).

⚠ **WARNING–Storm Precautions**

In the event of a lightning storm, immediately disconnect your Monster Power component from its power source. After you've done this, it's not necessary to disconnect any components from your Monster Power unit. If your Entech component is connected directly to a wall outlet, immediately disconnect the unit from its power source. For maximum performance and protection, we recommend connecting all your components to a Monster Power unit (see important note on page 14 regarding connections to the Monster PowerCenter and the limited connected equipment warranty).

⚠ **WARNING–No User Serviceable Parts Inside**

If, for any reason, your Monster Power or Entech component is not operating properly, do not remove any part of the unit (cover, etc.,) for repair. Unplug the unit and consult the owner's manual for warranty and service information.

Table of Contents

INTRODUCTION

Thank You

Welcome to the world of Monster Power.® As a PowerCenter™ owner, you will experience a level of performance that far exceeds any other AC power product on the market. The performance level and design of ordinary AC power accessories compromises the quality of the components they power. The PowerCenter's advanced technology and innovative design solves this problem and offers several unique convenience and performance features.

While the PowerCenter does an excellent job of protecting your components from harmful power surges, its main benefit is much more than just surge protection. That's the flaw of ordinary AC power strips/surge protectors. They protect only against random power surges and/or voltage spikes, when in fact, AC power line noise and noise generated by other components is an equally harmful and a constant threat to performance. Monster recognizes the importance of noise filtering, which is why Richard Marsh, a leading designer of audiophile grade AC power components, is a key member of our Monster Power R&D team. Richard has designed best selling power conditioning components costing more than $3,000. Now, he brings his expertise to all Monster Power products.

Our exclusive Clean Power™ filter circuitry virtually stops the noise that goes right through typical surge protectors. It isn't always enough to only have filtering from a noisy incoming power line, that's why the PowerCenter also features revolutionary separate noise isolation between digital, audio, and video filtered outlets. If any noise from electronic products plugged into an outlet gets through our Clean Power noise filters and to the power line, it will have to go through another filter to get to an adjacent set of outlets. The result, of course, is high quality picture and sound that's free from performance-damaging interference.

Another Monster Power breakthrough is the HTS3000's ultra-low loss RF circuitry. While other "line conditioners" feature coaxial outlets for convenience, their insertion loss can be quite high—up to 27dB. The PowerCenter features an incredibly small insertion loss, making it ideal for all digital coaxial connections like DSS.® The PowerCenter also features our exclusive color-coded outlets and corresponding audio/video ID labels made specifically for home theatre, so you'll hook everything up right the first time. As fellow audiophiles and videophiles, we designed the PowerCenter for the best possible picture and sound. Enjoy!

The Design Minds Behind the Reference PowerCenter HTS3000

Richard Marsh–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 as Technical Editor and contributor to *Fi, The Absolute Sound* and *Audio* magazines. He is included in *Who's Who in the West.*

Demian Martin–As co-founder and Engineering Director of Spectral Audio, Demian Martin designed a number of uncompromising audiophile electronics products. In 1983, he founded the original Entertainment Technologies (Entec), where he designed and manufactured high-end loudspeaker systems, a precision CD transport, low-noise preamplifiers, power amplifiers and specialized products for the recording and motion picture industries. Today, Demian is Director of Engineering at Monster Cable and also the Director of Engineering at the new Entertainment Technologies (Entech).

Noel Lee–Noel Lee is best known for popularizing the concept of high performance audio cable 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 today 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 accessories that deliver the best possible sound and picture.

CONTENT CHECKLIST

Before You Begin

Before you do anything, make sure you've got everything you need to enjoy the high performance of your Monster PowerCenter. You'll need the following items to get started:

1) This owner's manual.

2) Your favorite pen or computer with internet browser (for registering your warranty information).

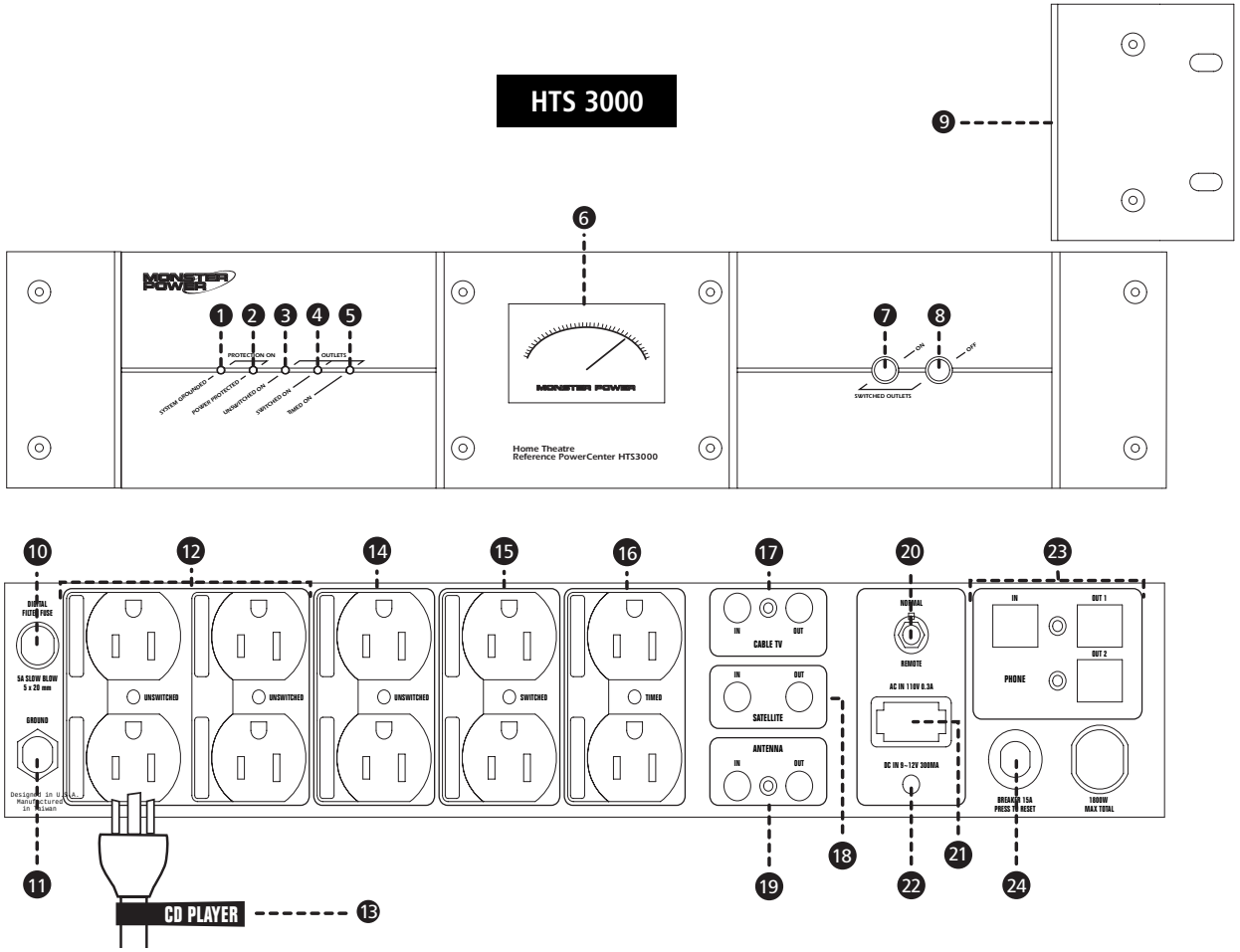
3) One Monster Power Home Theatre Reference PowerCenter (HTS3000).

4) 1 sheet of Monster Power audio/video ID labels (included)

5) 2 extra 5-amp slow blow fuses (included)

6) 1 remote turn-on cable (included)

7) 1 pair of rack "ears" (included)



(Please turn page for call-out number references)

HTS3000 FEATURES

(Note: numbers refer to drawings on page 6)

1. System Grounded: When this LED is On, the PowerCenter is plugged into a properly grounded 120V AC power outlet. If this LED is Off, unplug the PowerCenter immediately. **Monster Cable® is not responsible for equipment damage due to improper grounding of your home's outlets.**

2. Power Protected: When this LED is On, Monster Power Surge Protection Circuitry is functioning properly. If this LED is off, Monster Power Surge Protection Circuitry has malfunctioned. If the light is off, unplug the PowerCenter immediately. See warranty information for details on how to return damaged equipment to the manufacturer (page 37).

3. Unswitched On: When this LED is On, the components plugged into these outlets are receiving AC power (this light comes on when the PowerCenter is first plugged in).

4. Switched On: When this LED is On, the components plugged into the switched outlets will receive power when power is initially turned On by pressing the On button (see #1).

5. Timed On: When this LED is On, the components plugged into the unswitched outlets will receive power 5 seconds after power is turned On. The components will lose power 30 seconds after power is turned off.

6. Illuminated Voltage Meter: Measures incoming voltage and shows fluctuations in the AC power coming to your home. The meter works only when the PowerCenter is plugged in.

7. ON: Once the PowerCenter is plugged into a properly grounded 120V outlet, pressing this button will provide AC power to the components plugged into the PowerCenter's Switched and Switched (Timed) outlets.

8. OFF: Press this button to shut down Switched and Switched (Timed) components.

(Note: numbers refer to drawings on page 6)

9. Optional Rack "Ears": Two "ears" are included with the HTS3000 for rack mounting.
See page 21 for mounting instructions.

10. 5A Slow Blow Digital Filter Fuse: Protects the PowerCenter's digital filter section from power overload.

11. Ground Post: Provides a ground reference point for ungrounded components.

12. Digital Isolation Filter (Unswitched Outlets): These outlets have a special filter circuit designed to reduce any interference from your digital components getting into the rest of your system. Make sure to match the appropriate Identification Sticker to each component's power cord.

⚠ NOTE: It does not harm non-digital video components or audio components to be connected to the digital filter section. For the best possible performance, we recommend connecting only digital components here (like CD Player DVD Player, Satellite receiver, etc.).

13. Monster Power Audio/Video ID Labels: For easy identification of your components and where they're connected. This helps prevent accidental unplugging of your VCR or TV, which forces you to reset the clocks.

14. Video Interference Reduction Filter (Unswitched Outlets): These outlets have a special filter circuit that is designed to reduce interference to your video components. Make sure to match the appropriate Identification Sticker to each component's power cord.

⚠ NOTE: It does not harm audio components or digital components to be connected to the video interference reduction filter sectio. For the best possible performance, we recommend connecting only digital components here (like television, video monitor, or A/V Receiver, etc.).

(Note: numbers refer to drawings on page 6)

15. Low Noise Audio Filter (Switched Outlets): These outlets are designed with a special filter circuit that reduces audible noise in your audio components. Make sure to match the appropriate Identification Sticker to each component's power cord.

⚠ NOTE: It does not harm video components or digital components to be connected to the audio filter section. For the best possible performance, we recommend connecting only audio components here. Do not connect high current audio components here (see step 5 of Quick Start Hookup Guide.

16. High Power Audio Filter (Switched/Timed Outlets): These outlets are designed with a special filter circuit to handle ultra-high current audio components like high-wattage amplifiers. Make sure to match the appropriate Identification Sticker to each component' power cord.

⚠ NOTE: It does not harm video, audio or digital components to be connected to the High Power Audio Filter Section. For the best possible performance, we recommend connecting only high current audio components here.

17. Cable TV Coaxial Input/Output: The input connects the coaxial cable from your cable TV company. The output connects the coaxial cable to the input of your TV, VCR, or cable box.

18. Satellite Coaxial Input/Output: The input connects the coaxial cable from your Satellite dish (through a properly installed grounding block). The output connects the coaxial cable to your Satellite receiver input.

19. Antenna Coaxial Input/Output: The input connects the coaxial cable from your TV antenna. The output connects the coaxial cable to input of your TV or VCR (or signal splitter).

20. Normal/Remote AC Switch: Allows your HTS3000 to operate in Normal mode (switched outlets receive power when front panel button is pressed) or Remote mode (switched outlets receive power when second component connected via the remote AC hookup cable is turned on).

21. 2-Conductor Jack for Remote AC hookup: Accepts special two conductor AC power cable (included) for connection to second component switched outlet to enable remote turn on of switched outlets.

22. 1/8 inch miniplug Jack for Remote DC hookup: Accepts two-conductor 1/8" miniplug low voltage DC power cable (not included) for connection to central audio/video control system to enable remote turn on of switched outlets.

23. Phone Line: Allows you to hook up to two single phone lines simultaneously. Features a special Gas Surge Arrestor that protects against damaging voltage surges on the phone line.

⚠ CAUTION: This unit is not designed to provide surge protection for two line phones.

24. Thermal Circuit Breaker: Protects the PowerCenter from power overload.

Please Read This Page Before Installing
THE MONSTER POWERCENTER™

CAUTION

Proper Power and Protection

To completely deliver clean power and protect your equipment against electrical surges, every cable into or out of your equipment must be connected to the appropriate connection on a Monster PowerCenter. This includes AC power cables from all the components in your system, coaxial cables from cable TV antennas and dishes, and telephone cables from pay-per-view systems.

IMPORTANT NOTE

Proper Protection and the Limited Connected Equipment Warranty

Every piece of equipment in your system needs to be connected to a Monster PowerCenter to deliver the cleanest power possible and protect your equipment against electrical surges. The $100,000 Limited Connected Equipment warranty becomes void and invalid if any wire–phone, coax, audio or video interconnect–leading into the equipment comes from a component that is not properly protected by the Monster PowerCenter.

Proper Grounding

Monster PowerCenters require a properly grounded 3-wire outlet to protect connected equipment. If your AC outlet is improperly wired (no ground or reverse polarity), the Green "System Grounded" light on the front panel of the Home Theatre Reference PowerCenter HTS3000 will not light up. In this event, call an electrician to fix the problem in your home's wiring.

Many older buildings are inadequately wired. It's very common for a building to be improperly grounded. Building wiring and grounding must conform to applicable NEC (USA) or CEC (Canada) codes for the $100,000 Limited Connected Equipment warranty to be valid. If you're not sure about your home's wiring, have it checked by a qualified electrician.

A Note to your Cable TV Satellite Dish or Antenna Installer: *This reminder is provided to call the Cable TV System Installer's attention to Article 820-40 of the NEC, which provides specific guidelines for proper grounding and in particular, specifies that the cable ground shall be connected to the point of cable entry as practical.*

IMPORTANT NOTE

Before proceeding further, make sure the power is switched off on both the Monster PowerCenter and the equipment you want to plug in. To turn power off, depress the Power Off switch on the PowerCenter unit.

Fuse Installation

Before you connect the HTS3000 to a power source or connect any components to it, make sure a 5A slow blow fuse (provided) is installed in the digital filter fuse receptacle (see page 26 for instructions).

QUICK START HOOKUP GUIDE

Step 1 Pay-Per-View/Phone Line Hookup

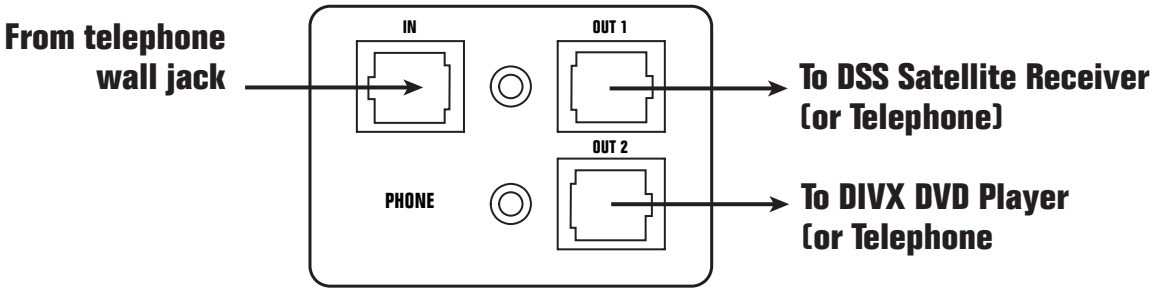
Please note that HTS 3000 is not intended for hookup of any phone which carries two separate phone lines on a single 4-pin jack.

A) Connect a phone cable from the wall phone outlet, and plug it into the HTS 3000 "Phone In" jack.

B) Connect a phone cable from one of the "Phone Out jacks"(out 1 or out 2), and plug it into the Pay-Per-View input on your DSS Satellite receiver or DIVX/DVD player.

C) If you have both a DSS Satellite receiver and a DIVX/DVD Player, connect a phone cable from the remaining HYTS 3000 "Phone Out" jack, and plug into the other pay-per-view input on your component.

For standard telephone line protection (i.e., not pay-per-view component)
Connect a phone cable from the telephone wall jack to HTS 3000 Phone In jack, then connect a phone cable from the HTS 3000 Phone Out 1 or Out 2 to telephone.

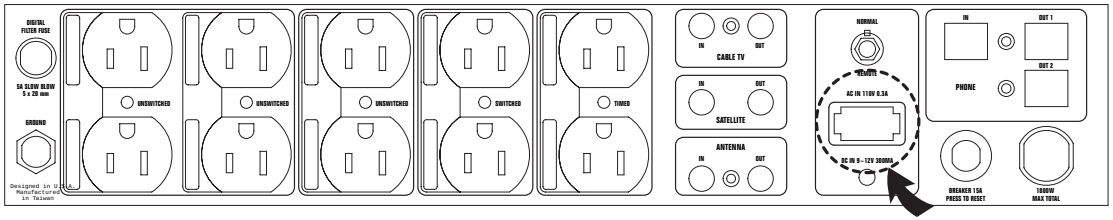


Step 2 Remote AC Control

A) For remote activation of switched outlets, place Normal/Remote switch in "Remote" position.

B) Plug in the Remote AC control cord's female end into the HTS3000 jack labeled "AC IN 110v 0, 3A."

C) Plug in the Remote AC control cord's 2-prong male end into your A/V receiver's Switched AC power outlet (or whatever component you wish to use as a remote power turn-on). When you turn on your Receiver, the PowerCenter's Switched outlets automatically become active.

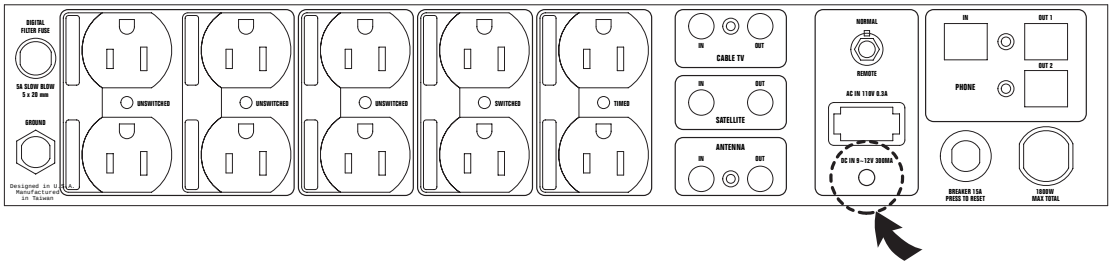


Step 3 Remote DC Control

A) For remote activation of switched outlets, place Normal/Remote switch in "Remote" position.

B) Plug in a Remote DC control cable with 1/8 inch miniplug (not supplied) to the HTS3000 jack labeled "DC IN 9-12v 300 MA."

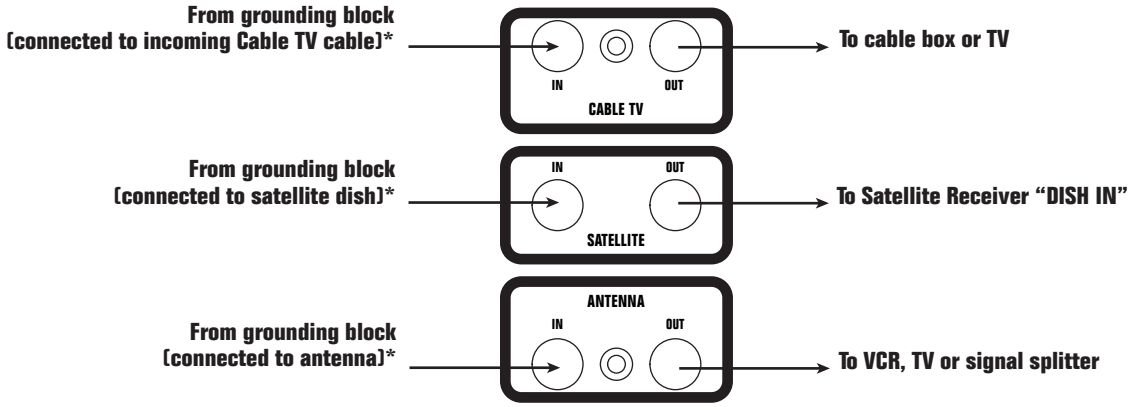
C) Plug in the other end of the Remote DC control cord to the corresponding central audio video control system controller output.



Step 4 **Coaxial Input/Output Hookup**

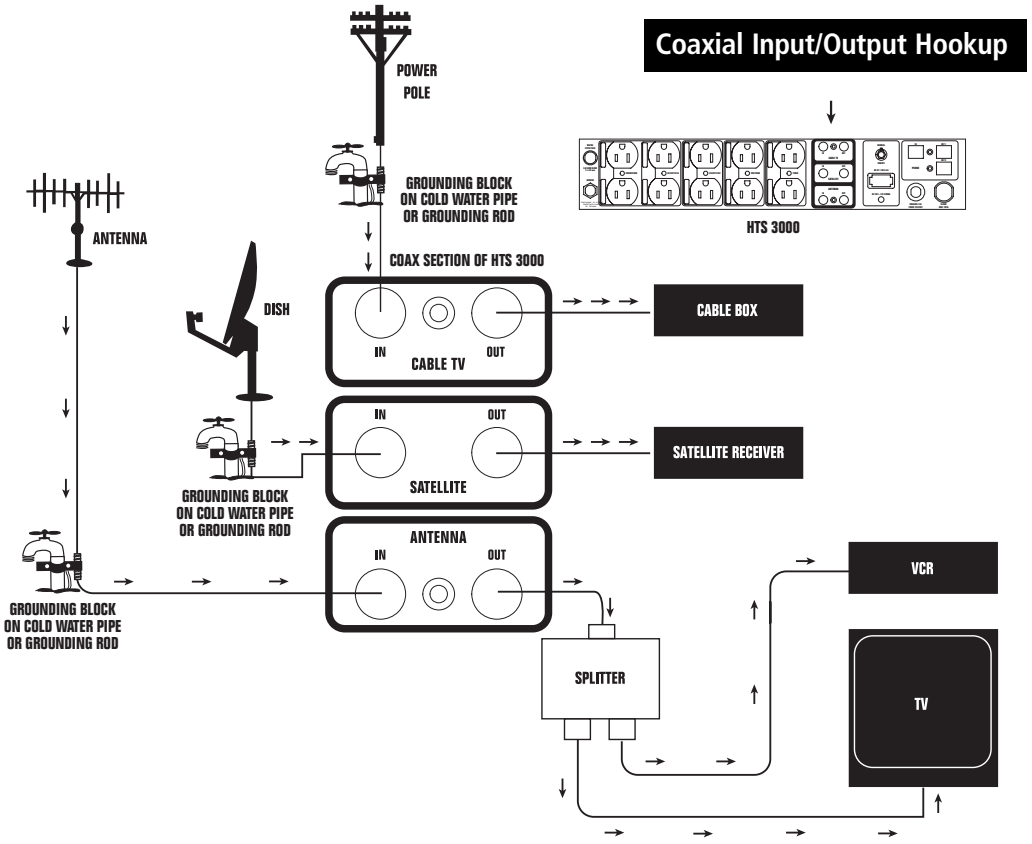
Please note: You will need additional coaxial cables to connect the HTS3000 to your components. See illustration on next page which shows a proper grounding schematic.

Protect Cable TV, Satellite and Antenna Connections as Follows:



*** See note on page 12 regarding proper grounding**

Grounding Your Cable TV, Satellite Dish and Antenna Connections



IMPORTANT NOTE

Proper grounding can be accomplished by using a special grounding block attached to a cold water pipe or copper ground rod driven into the ground. Consult with an electrician to verify your outdoor connections are grounded properly.

Step 5 High Current Audio Outlet (Switched/Timed) Hookup

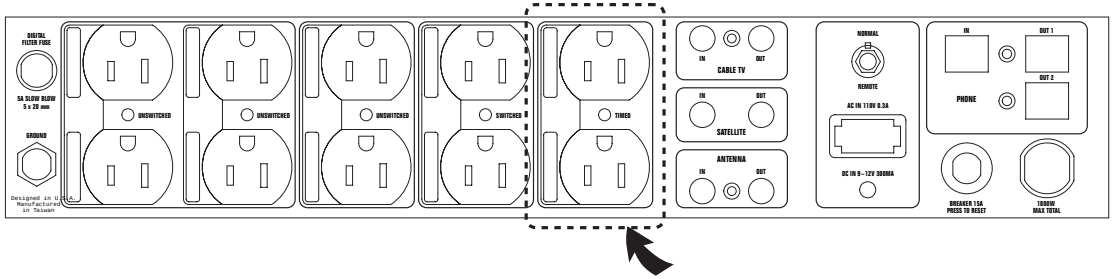
IMPORTANT NOTE: *The component-to-component noise filter featured in this group of outlets is designed to deliver optimum performance within a power rating of no more than 1800 watts continuous (15 amps max continuous). These outlets are specifically designed to withstand a peak current draw of 50 amps max. The filter's performance will be degraded if the optimum peak power capacity is exceeded. We recommend predetermining the total watts of all components plugged into this filter section* ***before*** *plugging in any components. To do this, look on the rear panel of your components and find the wattage rating. Add up the wattage for all components to be plugged into these outlets. They should not exceed 1800 watts.*

NOTE: *The maximum wattage rating of the entire HTS3000 is 1800 watts, therefore, you cannot "use up" all 1800 watts in this filter section and still connect additional additional components to the other filter sections which would exceed the HTS3000 maximum wattage rating.*

A.) *Attach a Monster Power ID label to each component's power cord* ***before*** *you plug it into the appropriate PowerCenter outlet.*

A) MAIN AMP: Plug your Main Amp's power cord into the corresponding Main Amp outlet.

B) SURROUND AMP: Plug your dedicated Surround Amp into the corresponding Surround Amp outlet.



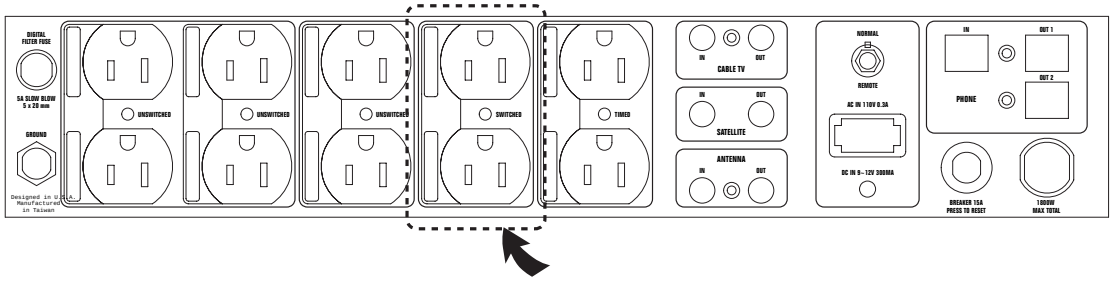
Step 6 Low Noise and Audio Outlet (Switched) Hookup

IMPORTANT NOTE: *The component-to-component noise filter featured in this group of outlets is designed to deliver optimum performance within a power rating of no more than 1200 watts (10 amps max continuous). The filter's performance will be degraded if the optimum peak power capacity is exceeded. We recommend predetermining the total watts of all components plugged into this filter section* ***before*** *plugging in any components. To do this, look on the rear panel of your components and find the wattage rating. Add up wattage for all components to be plugged into these outlets. They should not exceed 1200 watts.*

A) Attach a Monster Power ID label to each component's power cord *before* you plug it into the appropriate PowerCenter outlet.

B) PREAMP: Plug the preamp's power cord into the corresponding PREAMP outlet.

C) TAPE: Plug your Tape deck's power cord into the corresponding TAPE outlet.



Step 7 Video Outlet (Unswitched) Hookup

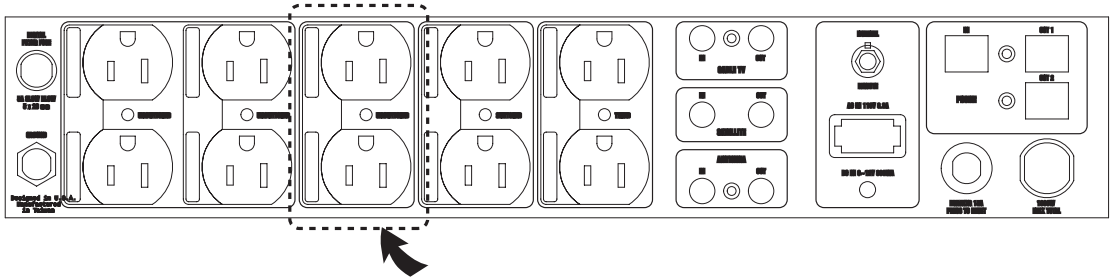
IMPORTANT NOTE: *The component-to-component noise filter featured in this group of outlets is designed to deliver optimum performance within a power rating of no more than 1800 watts (15 amps max continuous). The filter's performance will be degraded if the optimum peak power capacity is exceeded. To avoid this,* ***do not*** *plug any high current components into this section (Ultra high current amplifiers or A/V receivers should be plugged into the high power audio filter section–see page 17). We recommend predetermining the total watts of all components plugged into this filter section* ***before*** *plugging in any components. To do this, look on the rear panel of your components and find the wattage rating. Add up the wattage for all components to be plugged into these outlets. They should not exceed 1800 watts.*

NOTE: *The maximum wattage rating of the entire HTS3000 is 1800 watts, therefore, you cannot "use up" all 1800 watts in this filter section and still connect additional additional components to the other filter sections, which would exceed the HTS3000 maximum wattage rating.*

A) *Attach a Monster Power ID label to each component's power cord* ***before*** *you plug it into the appropriate PowerCenter outlet.*

B) A/V RECEIVER: Plug the A/V Receiver's power cord into the corresponding A/V Receiver outlet.

C) TV: Plug your TV's power cord into the corresponding TV outlet.



Step 8 Digital Outlet (Unswitched) Hookup

IMPORTANT NOTE: *The digital noise filter featured in this group of outlets is designed to deliver optimum performance within a power rating of no more than 600 watts (5 amps max continuous). The filter's performance will be degraded if the optimum peak power capacity exceeded. To avoid this,* ***do not*** *plug any high current component into this section. We recommend predetermining the total watts of all components plugged into this filter section* ***before*** *plugging in any components. Add up the wattage for all components to be plugged into these outlets. They should not exceed 600 watts.*

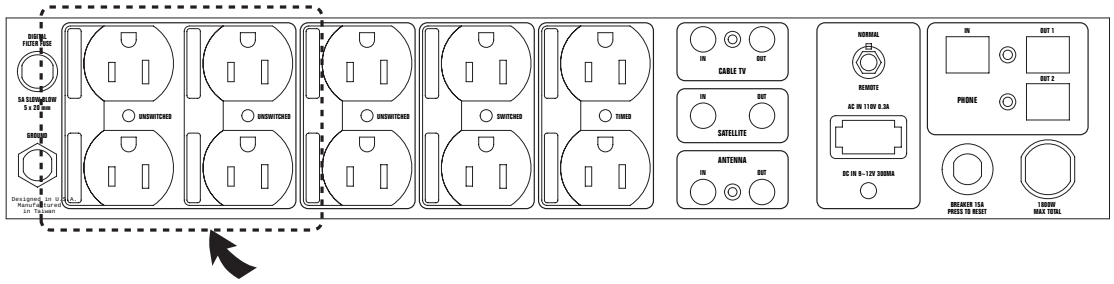
A.) *Attach a Monster Power ID label to each component's power cord* ***before*** *you plug it into the appropriate PowerCenter outlet.*

B) CABLE/SAT: If you are using a cable TV box, plug its power cord into the corresponding CABLE/SAT outlet. If you are using a Satellite receiver, plug its power cord into the corresponding CABLE/SAT outlet.

C) CD: Plug your CD player's power cord into the corresponding CD outlet.

D) SPARE: Plug your spare Digital component's (e.g., Digital Video Camcorder or Cable TV box if you also have a satellite receiver) power cord into the corresponding SPARE outlet.

E) DVD/LD: If you are using a DVD player or LaserDisc player, plug its power cord into the corresponding DVD/LD outlet.



Step 9 Rack Mounting Your PowerCenter

A) Remove two screws on the left fascia panel with a 3/32" allen key (not included). Remove fascia panel and save it (if you wish to use the PowerCenter out of a rack in the future).

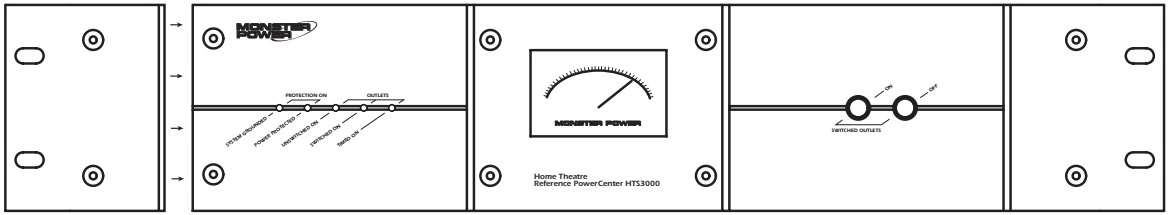
B) Line up the left rack "ear" over the two 3/32 holes on the left side of the PowerCenter. Using the 3/32 Allen key, turn the two Allen screws provided clockwise until tight.

C) Repeat Step A for installation of rack ear on the right side of PowerCenter.

D) Align the HTS3000 on your equipment rack so that the slots in the "ears" line up with the holes in the rack walls.

E) Secure the HTS3000 in place with four rack screws (not provided) until secure.

Attach RACK MOUNTS on the right and left side of the HTS3000 PowerCenter



Frequently Asked Questions

Q. So, my PowerCenter has an illuminated meter that monitors changes in incoming voltage. Why is that important?

A. The voltage meter is essentially a diagnostic tool. It measures between 100-130 volts because that's the range that incoming voltage occurs that's relevant to equipment performance. High-end components like tube amps that are very sensitive to fluctuations in voltage may experience degraded performance if voltage is too high or too low. The meter allows you to monitor changes in incoming voltage that are a result of other equipment or appliances that share the power line going to the circuit breaker (provided you're not using a separate power line).

If voltage drops below 110V, disconnect your components from the PowerCenter immediately.

Q. What causes changes in voltage?

A. Changes in voltage can occur if your power company switches power sources throughout the day and/or evening. Or, let's say you live in a crowded urban area, for example. In the summertime, thousands of people could be using their air conditioning units simultaneously. This could cause a substantial drop in incoming voltage, which is often referred to as a "Brown Out."

Q. What is the importance of component-to-component filtering?

A. With the Monster PowerCenter, AC power must first go through a segment of noise filters which isolates your equipment from noise on the AC power line. Most manufacturer's battle against line noise stops there. The next crucial step of noise filtering must occur *between* components. Our patented* component-to-component noise filtering is one of the PowerCenter's incredibly innovative features because it protects components from degrading each other's performance via their own special brand of interference. The PowerCenter outlets are all directly connected, so the noise that's generated by a particularly noisy component (digital components like CD players are infamous for this) will attempt to get onto other components. It will not, however, because it must to go through a specialized filter to get to an adjacent outlet, and noise is eliminated for the best possible sound and picture.

Q. What is the importance of separate filtering for digital, audio, and video?

A. The nature of digital, audio, and video signals are very different. Each generates a different kind of noise, and is sensitive to different types of noise. Video components generate a wide band of video interference. Digital components generate an even wider band of interference, while Audio components generate a narrow band of interference. Monster's patented digital, audio, and video filters are optimized for each application, so you get the maximum amount of noise filtering for the best possible sound and picture.

Q. Does it matter which outlets I plug my components into?

A. Yes. Each group of outlets is specifically designed to protect and maximize performance of ONLY the components they are intended to power. For example, an amplifier draws high current and a VCR does not. Each gets separate noise filtering to accommodate their inherent needs and differences. Further, as a high current component, you would not necessarily want to leave an amplifier running all the time, so it is assigned a Switched outlet. A VCR on the other hand, is assigned an Unswitched outlet so you don't have to worry about setting and resetting that clock when PowerCenter is turned On and Off.

*U.S. Pat. No. 5,589,718

Q. Will it harm a component to plug it into an outlet that it's not designated to power, like a high current amplifier into an outlet marked for TV?

A. As stated earlier in the Outlet Hookup section, the component-to-component noise filters are designed to deliver optimum performance within specific power ratings (please refer to the Outlet Hookup guide for exact ratings). A filter's performance will be degraded if the optimum peak power capacity is exceeded. To avoid this, do not plug any high current components into lower current outlets. We recommend predetermining the total watts of all components plugged into each filter section before plugging in any components to ensure the maximum 1800 watt rating of the HTS3000 is not exceeded.

Q. Can you give some examples of what would happen if high current components are plugged into low current outlets?

A. If you were to plug an amplifier into a switched but not timed outlet, you may hear a "thump" come from your speakers when you turn on the PowerCenter. The amplifier is a high current device that ideally should be plugged into a PowerCenter Switched (Timed) outlet to avoid this problem. By connecting amplifiers to a timed outlet, they will be turned on last, and turned off first, preventing the "thump" from getting to your speakers. Also, it's possible that the 5A digital filter fuse might blow if a high current draw component like an amplifier is inadvertently connected to the digital isolation filter section.

Troubleshooting

PROBLEM–The PowerCenter is not receiving power.

Possible Cause #1
The PowerCenter is not turned On.

Possible Solutions
- *Turn the PowerCenter Switch On.*
- *Make sure the PowerCenter's AC power plug is plugged into a 120V wall outlet that is properly grounded.*
- *In some households, a wall switch may need to be thrown to make the wall plug come alive. Try turning on the light switches located near the wall unit powering the PowerCenter.*
- *If the PowerCenter Normal/Remote selector switch is switched to Remote, switch it to Normal.*

Possible Cause #2
The PowerCenter Slow Blow 5A digital filter fuse is blown.

Possible Solutions
- *Remove the 5A fuseholder on the back of the PowerCenter using a flat head screwdriver. Examine the fuse to see if the filament (looks like squiggly line in the middle of the fuse) is broken. If it is, the fuse is blown and needs to be replaced. If you have lost or run out of the replacement fuses provided with the PowerCenter, simply go to your local electronics store and buy a Slow Blow 5A 5X20mm fuse.*
- *To install a fuse, secure it in the fuseholder cap and push the fuse and cap into the receptacle. Turn the fuseholder clockwise until tight.*

Possible Cause #3
The PowerCenter Slow Blow 5A digital filter fuse is not installed.

Possible Solutions
- *If you lose or run out of the replacement fuses provided with the PowerCenter, go to your local electronics store and buy a Slow Blow 5A 5X20mm fuse.*
- *To install a fuse, secure it in the fuseholder cap and push fuse and cap into receptacle. Turn clockwise until tight with a flat head screwdriver.*

Possible Cause #4
A power overload occurred, throwing the Thermal Circuit Breaker.

Possible Solution
- *Press the PowerCenter Thermal Circuit Breaker button in to reset. Please allow 10 minutes before attempting to reset. If you reset too soon, the breaker will prematurely sense a power overload and not allow the unit to operate.*

Possible Cause #5
The PowerCenter cord is plugged into an outlet on the back of one of your components and the component is not turned On. For the best possible performance, plug the PowerCenter into a wall unit, not another component.

Possible Solution
- *Turn the component power On.*

Possible Cause #6
Your PowerCenter is defective.

Possible Solution
- *Please see the section marked "Warranty Information" for actions to take.*

PROBLEM–Component is not receiving power.

Possible Cause #1
The component is plugged into a Switched outlet and the PowerCenter has not been turned On.

Possible Solutions
- *Turn the PowerCenter On.*
- *Or, plug the component into an Unswitched outlet.*

Possible Cause #2
- Component is plugged into a Switched outlet, but power on the component is not on. In some instances, a component plugged into a switched outlet won't receive power when the PowerCenter is turned on unless the component power is also switched on.

Possible Solution
- *Turn the component power selector On.*

Possible Cause #3
- Normal/Remote switch is in the "remote" position by mistake

Possible Solution
- *Place switch in "normal" position.*

PROBLEM–Speakers emit a humming or buzzing noise.

Possible Cause
The PowerCenter is sharing AC power with equipment that is not properly grounded.

Possible Solution
- *Connect your PowerCenter to a dedicated outlet.*

PROBLEM–Loud "thump" noise occurs from your speakers when you turn the PowerCenter On or Off.

Possible Cause
Your amplifier is plugged into a Switched outlet that is not Time Delayed.

Possible Solution
- *Plug your amplifier into a Switched (Timed) Delayed outlet. (See description on bottom of page 24 for more information.*

PROBLEM–You can't turn on the PowerCenter via the Remote control.

Possible Cause #1
The component your PowerCenter is connected to with the remote turn-on cable is not plugged in.

Possible Solution
- *Plug the connected component into an available wall outlet.*

Possible Cause #2
The component your PowerCenter is connected to is not turned On.

Possible Solution
- *Turn the component On.*

Possible Cause #3
The PowerCenter Normal/Remote selector switch is switched to Normal.

Possible Solution
- *Switch Normal/Remote selector to Remote.*

PROBLEM–You can't turn on the PowerCenter via the Remote DC control.

Possible Cause
The custom audio video control center your PowerCenter is connected to (via remote DC cable) does not have power.

Possible Solution
- *Turn On your Custom Installation component.*

PROBLEM–Unswitched LED on front panel is Off

Possible Solution
- *Plug the PowerCenter into a properly grounded 120V outlet.*

PROBLEM–Switched LED and outlets are Off

Possible Cause #1
You are using the Switched Outlet Remote Turn-On feature and haven't plugged the two-prong cord into the component you wish to use to activate the Remote Turn-On.

Possible Solution
- *Plug the two-prong cord into the component you wish to use to activate the Remote Turn-On.*

Possible Cause #2
The component remote control you are using to power the Remote turn-on has a dead battery.

Possible Solution
- *Replace the battery powering the component remote control.*

Possible Cause #3
The component you wish to use to activate the Remote Turn-On isn't plugged into a properly grounded 120V outlet.

Possible Solution
- *Plug the component you wish to use to activate the Remote Turn-On into a properly grounded 120V outlet.*

PROBLEM—Timed LED on the PowerCenter front panel is Off.
Possible Cause #1
You are using the Timed Outlet Remote Turn-On feature and haven't plugged the two-prong cord into the component you wish to use to activate the Remote Turn-On.

Possible Solution
- *Plug the 2 conductor cord into the switched AC outlet on the component you wish to use to activate the Remote Turn-On.*

Possible Cause #2
The component remote control you are using to power the Remote turn-on has a dead battery.

Possible Solution
- *Replace the battery powering the component remote control.*

Possible Cause #3
The component you wish to use to activate the Remote Turn-On isn't plugged into a properly grounded 120V outlet.

Possible Solution
- *Plug the component you wish to use to activate the Remote Turn-On into a properly grounded 120V outlet.*

APPENDIX A

Glossary of Power-Related Terms

Audio Noise: In the audio-frequency range, any electrical disturbance introduced from a source extraneous to the signal.

Alternating Current (AC): A flow of electricity which reaches peak amplitude in one direction, decreases to zero, then reverses itself and reaches a peak amplitude in the opposite direction. This cycle is repeated continuously.

Amp: A common abbreviation for Ampere. Ampere is a unit of electrical current or rate of flow of electrons.

CSA: A common abbreviation for Canadian Standards Association. CSA has developed over 200 standards including several for electrical and electronic products.

Clean Power:™ Noise filtering designed exclusively for Monster Power™ products by renowned engineer/inventor Richard Marsh. Filters out unwanted interference caused by RFI, EMI, and component-generated noise, so components plugged into PowerCenter can deliver maximum performance without noise entering their signal path.

Conducted Noise: Any unwanted electrical signal conducted on the power lines supplying the equipment.

Current: The movement of electrons through a conductor.

Digital Noise: In the digital-frequency range, any electrical disturbance introduced from a source extraneous to the signal.

Direct Current (DC): A flow of continuous electric current in one direction.

Electro Magnetic Interference (EMI): Electromagnetic phenomena in which various appliances and components generate interference that can contribute to a degradation in performance of an electronic receiver or system.

Filter: A selective network of resistors, inductors, or capacitors which offers comparatively little opposition to certain frequencies, while blocking or attenuating other frequencies.

Ground: A point in an electrical system that has zero voltage. Usually, the chassis of an electrical component is at ground potential and thus serves as the return path for signals, as well as for power circuits.

Hertz (Hz): A unit of frequency equal to one cycle per second.

Isolation Transformer: A transformer designed to provide magnetic coupling between one or more pairs of isolated circuits, without introducing significant coupling of any other kind between them, such as electrostatic or conductive coupling.

Joule Rating: A measurement of how much surge can be absorbed by a surge suppressor device. The higher the joule rating, the more surge it can absorb.

Peak Current: The maximum current which flows during a complete cycle without permanent change in breakdown ratings or published life specifications.

Power: The energy dissipated into an electrical or electronic circuit or component that is conducting either AC or DC. Electrical energy developed to do "work" such as the voltage from an amplifier used to drive a speaker.

Power Line: Two or more wires conducting electric power from one location to another.

Radio Frequency Interference: Any electrical signal capable of being propagated into and interfering with the proper operation of electrical or electronic equipment. The frequency range of such interference may be taken to include the entire electromagnetic spectrum.

Spike: An abrupt transient which comprises part of a pulse, but exceeds its average amplitude considerably.

Surge: A large, sudden change of voltage or current, usually caused by the collapse of a magnetic field or by a shortened or opened circuit element.

Surge Protector: A device which protects component circuitry from high alternating voltage peaks or transients.

PowerCenter Switched Outlet: These outlets are designed for high current audio components such as amplifiers. The components plugged into these outlets will not receive AC power unless the PowerCenter is turned on either manually or by remote control.

Switched (Timed) Outlet: Switched outlet(s) that receives power only after the main on/off switch is turned on either manually or by remote control.

Transient: A momentary surge on a signal or power line which may cause component breakdown and failure.

UL: A common abbreviation for Underwriters' Laboratories, Inc., a corporation supported by some underwriters for the purpose of establishing safety standards on types of equipment or components. UL listing is not mandated by law, manufacturers often voluntarily seek the UL listing as a way to communicate a product's attributes in a manner that is recognized by the general public. All Monster Power products are either UL listed (under the stringent UL 1449 revision 2 code), or are currently going through the listing process.

Unswitched Outlet: These outlets always receive AC power, as long as the Power Component is plugged into an AC power outlet.

Video Noise: In the video-frequency range, any electrical disturbance introduced from a source extraneous to the signal.

Volt (V): The unit of measurement of electromotive force. One Volt is equivalent to the force required to produce a current of one ampere through a resistance of one ohm.

Voltage: Electrical pressure—i.e., the force which causes current to flow through an electrical conductor.

Voltage Rating: The maximum voltage which an electrical device or component can sustain without breaking down.

APPENDIX B

How to Contact Us

Write to us at:	Monster Power C/O Monster Cable Products, Inc. 455 Valley Drive Brisbane, CA 94005
E-mail us at:	monsterpower@monstercable.com
Visit us on the web at:	www.monstercable.com

APPENDIX C

Warranty Information

Monster Cable Products, Inc. warrants that this product shall be free of defects in materials and workmanship under normal use for its lifetime.

This warranty extends only to the original purchaser and is non-transferable. During the warranty period, Monster Cable Products, Inc. will, at no additional charge, repair or replace defective parts or, at the option of Monster Cable Products, Inc. replace the entire unit.

This warranty does not extend to any Monster Cable Products, Inc. product that has been or rendered defective (a) as a result of accident, misuse or abuse: (b) by the use of parts not manufactured or sold by Monster Cable Products, Inc.; or (c) by modification of product.

Connected Equipment Warranty

Monster Cable Products will replace, or, at its option, pay to repair or pay the fair market value of equipment that is damaged by an AC power, cable, telephone, or lightning surge while connected *to a properly installed* Monster Cable Products surge protector.

$100,000 is the maximum amount Monster Cable will pay. The foregoing Connected Equipment Warranty is conditioned on the damage having arisen from surge damage or the Monster Cable Products surge protector having operated outside the designed specifications.

General Provisions

As To Each Warranty:

Any technical or other advice offered before or after delivery with respect to the use and application of the product is furnished without charge and subject to the understanding that such advise issued at the purchaser's sole risk without any limitation or modifications of any disclaimer or other provision contained herein.

THE ABOVE ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL MONSTER CABLE PRODUCTS, INC. BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES.

Connected Equipment Claim

How To Make A Claim

In the event damage has occurred to equipment which is properly connected to a Monster Power product as a result of an abnormally high voltage spike, you must follow these instructions.

1. Call 877/800-8989.

2. Give a detailed explanation of how the damage occurred.

3. Obtain a Return Authorization Number for the Monster Power product.

4. A "Connected Equipment Claim Form" will be sent to you. This claim form must be filled out entirely and sent back with the Monster Power product.

5. Return the Monster power product, shipping prepaid, to Monster for verification of damage, along with a copy of your sales receipt for your Monster Power product, completed Connected Equipment Claim Form, and Return Authorization number printed on the outside of the package. This form will include complete instructions for return, along with an address label.

6. Monster will respond as to whether the damage to the connected equipment was caused by the Monster Power product.

7. If it is determined that the damage was caused by the Monster Power product, Monster at its discretion, will direct you to:

A. Obtain a repair estimate at a service center authorized by the manufacturer of the connected equipment; or,

B. Send the connected equipment to Monster for repair, or,

C. Reimburse you for fair market value of the damaged connected equipment (see Limited Connected Equipment Warranty for details)

8. If a repair estimate is required, as stated in Section 7A above, you will be instructed as to how to properly submit it to Monster for payment.

Note: Compensation or restoration of data loss is not covered.

If you have any questions regarding this claim procedure, call 877/800-8989.

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