

MC1201 Power Amplifier



MC1201

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



AVIS RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR.

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

WARNING - TO REDUCE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

To prevent the risk of electric shock, do not remove cover or back. No user serviceable parts inside.

IMPORTANT SAFETY INSTRUCTIONS!

PLEASE READ THEM BEFORE OPERATING THIS EQUIPMENT.

General:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. **Warning: To reduce risk of fire or electrical shock, do not expose this equipment to rain or moisture. This unit is capable of producing high sound pressure levels. Continued exposure to high sound pressure levels can cause permanent hearing impairment or loss. User caution is advised and ear protection is recommended when playing at high volumes.**
6. **Caution: to prevent electrical shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.**
Attention: pour prevenir les chocs electriques pas utiliser cette fiche polarisee avec un prolongateur, une prise de courant ou un autre sortie de courant, sauf si les lames peuvent etre inserees afond ans en laisser aucune partie a decouvert.
7. Unplug this equipment during lightning storms or when unused for long periods of time.
8. Only use attachments/accessories specified by the manufacturer.

Installation:

9. The equipment shall be installed near the AC Socket Outlet and the disconnect device shall be easily accessible.
10. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
11. Do not install near any heat sources such as radiators, heat registers, stoves, or other equipment (including amplifiers) that produce heat.
12. Do not use this equipment near water.
13. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
14. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid injury from tip-over.



Connection:

15. Connect this equipment only to the type of AC power source as marked on the unit.
16. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
17. 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. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

18. Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.
19. To completely disconnect this equipment from the AC Mains, disconnect the power supply cord plug from the AC receptacle.

Care of Equipment:

20. Clean only with a dry cloth.
21. Do not permit objects or liquids of any kind to be pushed, spilled and/or fall into the equipment through enclosure openings.
22. Unplug the power cord from the AC power outlet when left unused for a long period of time.

Repair of Equipment:

23. Refer all servicing to qualified service personnel. Servicing is required when the equipment 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 equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.
24. Do not attempt to service beyond that described in the operating instructions. All other service should be referred to qualified service personnel.
25. When replacement parts are required, be sure the service technician has used replacement parts specified by McIntosh or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Thank You

Your decision to own this McIntosh MC1201 Power Amplifier ranks you at the very top among discriminating music listeners. You now have "The Best." The McIntosh dedication to "Quality," is assurance that you will receive many years of musical enjoyment from this unit.

Please take a short time to read the information in this manual. We want you to be as familiar as possible with all the features and functions of your new McIntosh.

Please Take A Moment

The serial number, purchase date and McIntosh dealer name are important to you for possible insurance claim or future service. The spaces below have been provided for you to record that information:

Serial Number: _____

Purchase Date: _____

Dealer Name: _____

Technical Assistance

If at any time you have questions about your McIntosh product, contact your McIntosh dealer who is familiar with your McIntosh equipment and any other brands that may be part of your system. If you or your dealer wish additional help concerning a suspected problem, you can receive technical assistance for all McIntosh products at:

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, New York 13903
Phone: 607-723-1545
Fax: 607-723-3636

Customer Service

If it is determined that your McIntosh product is in need of repair, you can return it to your dealer. You can also return it to the McIntosh Laboratory Service Department. For assistance on factory repair return procedure, contact the McIntosh Service Department at:


McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, New York 13903
Phone: 607-723-3515
Fax: 607-723-1917

Table of Contents

Safety Instructions	2
Thank You and Please Take a Moment.....	3
Technical Assistance and Customer Service	3
Table of Contents and General Notes	4
Introduction	4
Performance Features	4
Dimensions	5
Installation	6
Rear Panel Connections and Switch	7
How to Connect	8
Front Panel Displays and Controls	10
How to Operate	11
Technical Description	12
Notes	16
Specifications	18
Packing Instruction	19

General Notes

Caution: The MC1201 Amplifier weight is 147 pounds (66.7 kilograms). It requires two or more persons to safely handle when moving the amplifier.

1. The following Connecting Cable is available from the McIntosh Parts Department:
Power Control Cable Part No. 170-202
Six foot, 2 conductor shielded, with two 1/8 inch stereo mini phone plugs.
2. For additional connection information, refer to the owner's manual(s) for any component(s) connected to the MC1201.
3. The MC1201 mutes the speaker output for approximately two seconds when first turned on.
4. It is very important that loudspeaker cables of adequate size be used, so that there will be no power loss. The size is specified in Gauge Numbers or AWG, (American Wire Gauge). The smaller the Gauge number, the larger the wire size:
If your loudspeaker cables are 50 feet (38.1m) or less, use at least 14 Gauge.
If your loudspeaker cables are 100 feet (76.2m) or less, use at least 12 Gauge.
5. Pin configuration for the XLR Balanced Input connectors on the MC1201: PIN 1: Shield or ground
PIN 2: + input
PIN 3: - input
6. In the event that the MC1201 over heats, due to improper ventilation and/or high ambient temperature, the protection circuits will activate. The Front Panel Power Guard LED will continuously indicate ON and the audio will be muted. When the MC1201 has returned to a safe operating temperature, normal operation will resume.
7. The MC1201 incorporates the very latest in Fully Double Balanced Circuitry. As a result, the Loudspeaker  Negative Connections are above chassis ground. Do not combine any connections together, ground them or connect with another MC1201.

Introduction

Now you can take advantage of traditional McIntosh standards of excellence in the MC1201 Power Amplifier. The 1,200 watt high current output will drive any high quality loudspeaker system to its ultimate performance. The MC1201 reproduction is sonically transparent and absolutely accurate. The McIntosh Sound is "The Sound of the Music Itself."

Performance Features

• Power Output

The MC1201 is a Power Amplifier with a capability of 1,200 watts into 2, 4 or 8 ohm speakers with less than 0.005% distortion.

• Full Balanced Circuitry

The MC1201 is fully balanced from inputs to outputs. It consists of two matched power amplifiers operating in push-pull with their outputs combined in a McIntosh Autoformer. The double balanced configuration cancels virtually all distortion.

• Power Guard

The patented McIntosh Power Guard circuit that prevents the amplifier from being overdriven into clipping, with its harsh distorted sound that can also damage your valuable loudspeakers.

• Sentry Monitor and Thermal Protection

McIntosh Sentry Monitor power output stage protection circuits ensure the MC1201 will have a long and trouble free operating life. Built-in Thermal Protection Circuits guard against overheating.

• Patented Autoformer

McIntosh designed and manufactured Output Autoformers provide an ideal match between the amplifier output stages and speaker loads of 2, 4 and 8 ohms. The Autoformers also provide perfect DC protection for your valuable loudspeakers.

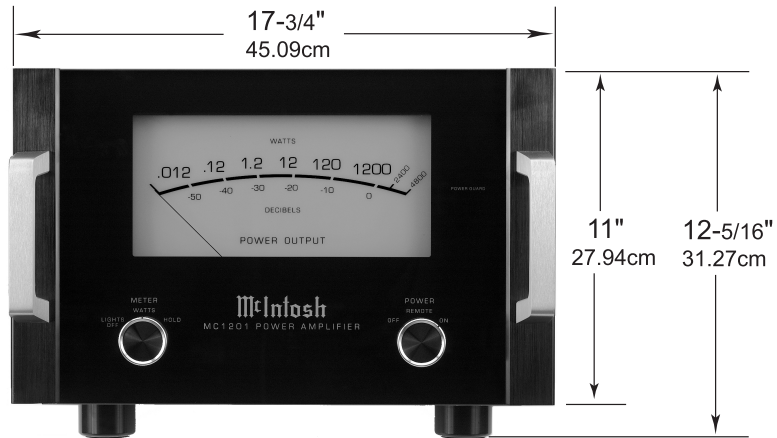
• Illuminated Power Meter

The Illuminated Power Output Watt Meter on the MC1201 is peak responding, and indicates the true power output of the amplifier. The Peak Watt Hold Mode allows the meter to temporarily stay at the highest power output and then slowly decay.

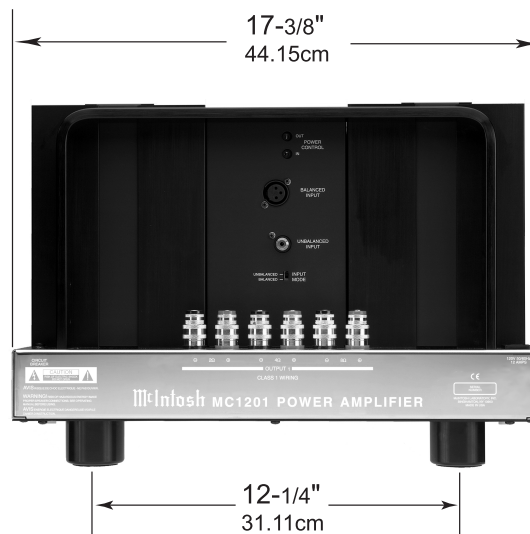
Introduction, Performance Features and Dimensions

The following dimensions can assist in determining the best location for your MC1201. There is additional information on the next page pertaining to installing the MC1201 into cabinets.

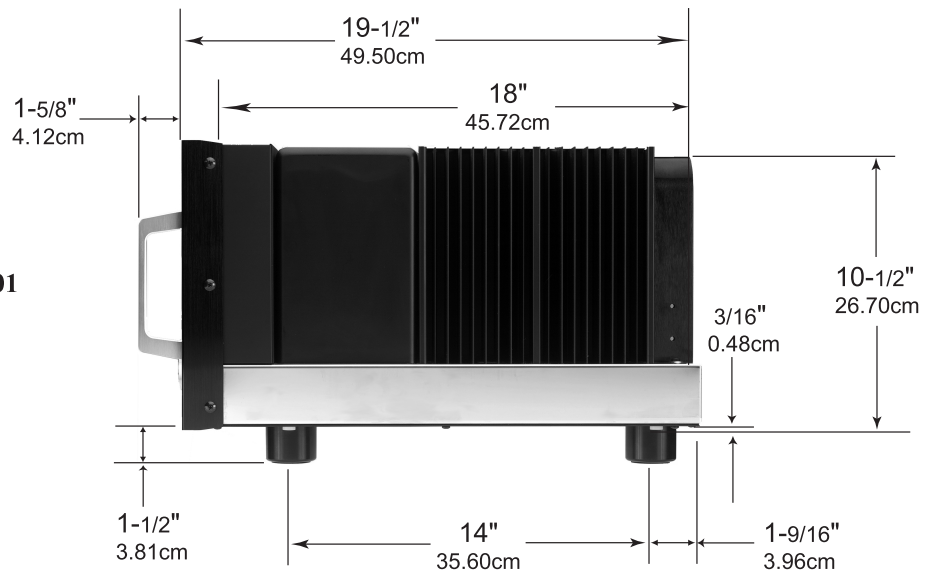
Front View of the MC1201



Rear View of the MC1201



Side View of the MC1201



Installation

Caution: The MC1201 Amplifier weight is 147 pounds (66.7 kilograms). It requires two or more persons to safely handle when moving the amplifier.

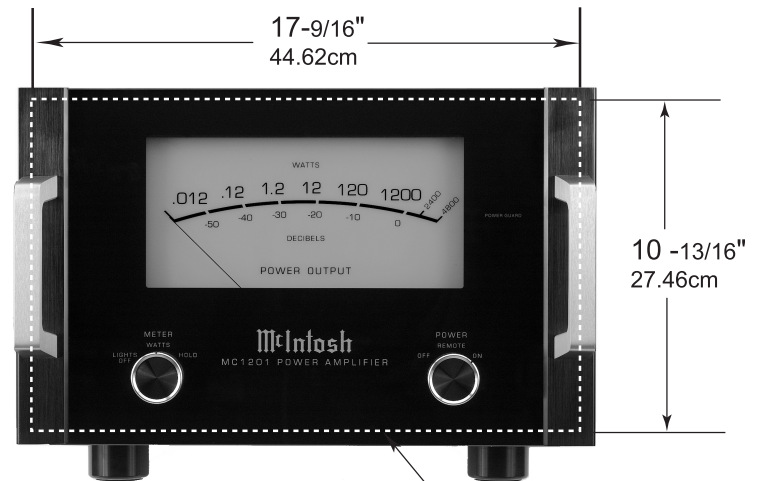
The MC1201 can be placed upright on a table or shelf, standing on its four feet. The four feet may be removed from the bottom of the MC1201 when it is custom installed as outlined below. The four feet together with the mounting screws should be retained for possible future use if the MC1201 is removed from the custom installation and used free standing. It also can be custom installed in a piece of furniture or cabinet of your choice. The required panel cutout, ventilation cutout and unit dimensions are shown.

Always provide adequate ventilation for your MC1201. Cool operation ensures the longest possible operating life for any electronic instrument. Do not install the MC1201 directly above a heat generating component such as a high powered amplifier. If all the components are installed in a single cabinet, a quiet running ventilation fan can be a definite asset in maintaining all the system components at the coolest possible operating temperature.

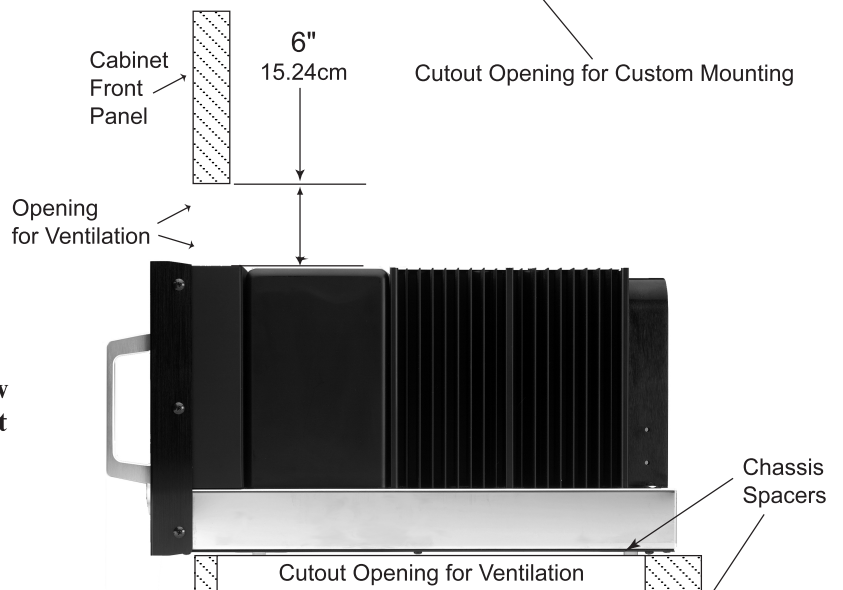
A custom cabinet installation should provide the following minimum spacing dimensions for cool operation. Allow at least 6 inches (15.24 cm) above the top, 2 inches (3.81 cm) below the bottom and 1 inch (2.54 cm) on each side of the amplifier, so that airflow is not obstructed. Allow 22 inches (55.88 cm) depth behind the front panel. Allow 2 inches

(5.08 cm) in front of the mounting panel for handle clearance. Be sure to cut out a ventilation hole in the mounting shelf according to the dimensions in the drawing.

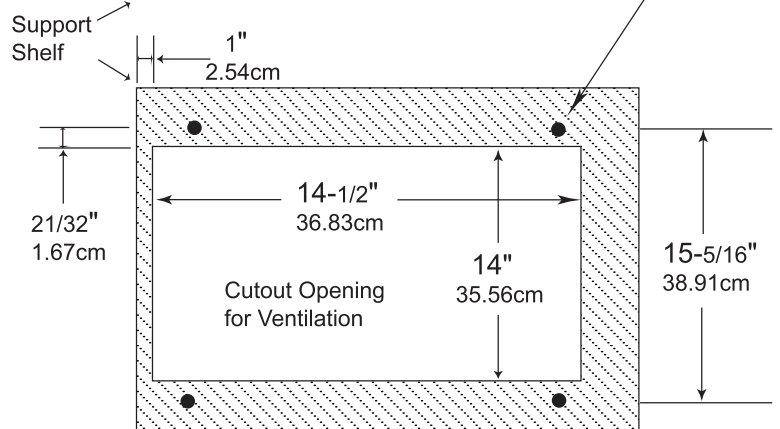
**MC1201 Front Panel
Custom Cabinet Cutout**

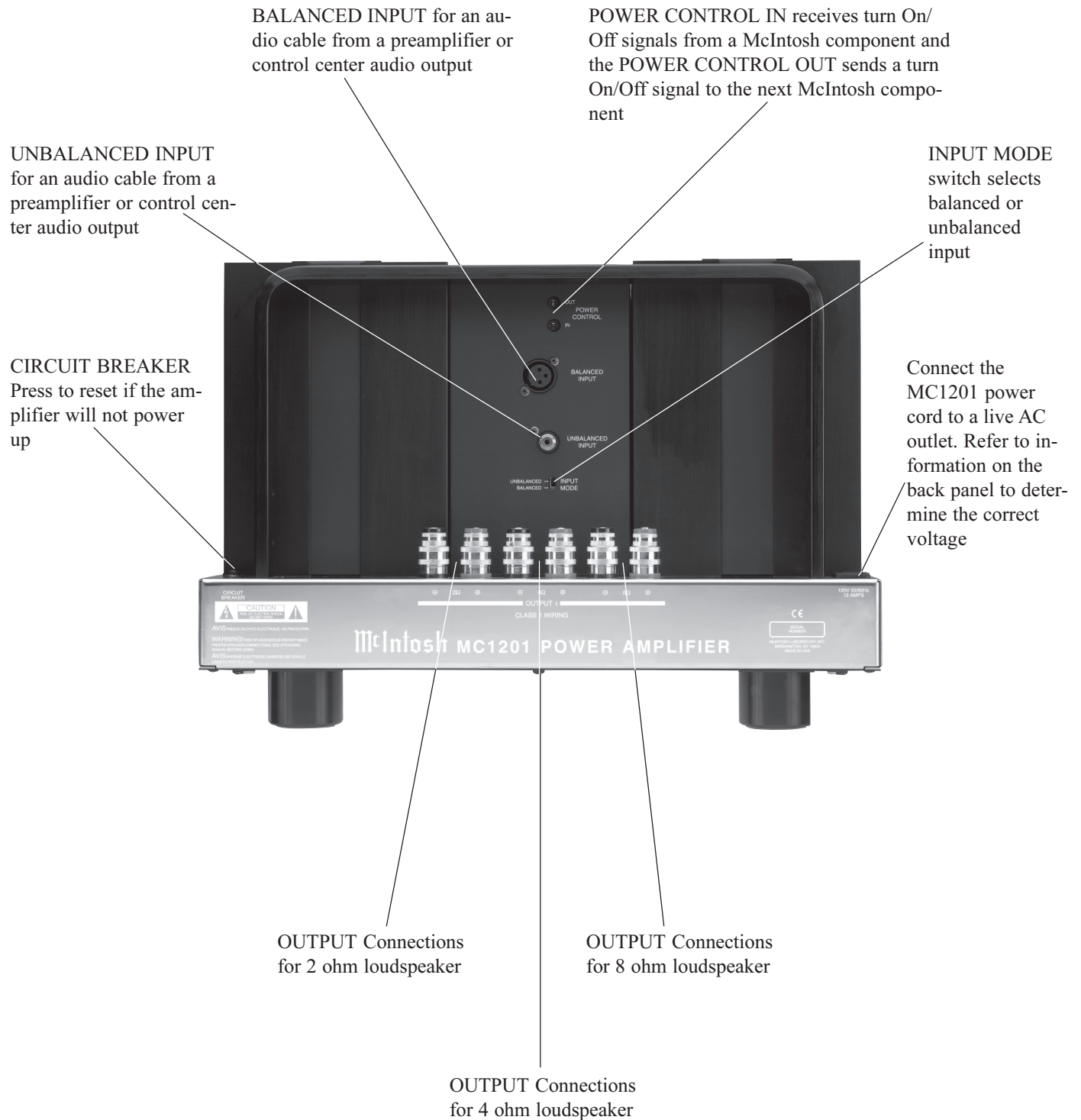


**MC1201 Side View
in Custom Cabinet**



**MC1201 Bottom View
in Custom Cabinet**





Caution: The Loudspeaker \ominus Negative Connections are above chassis ground. Do not combine any connections together, ground them or connect with another MC1201.

How to Connect the MC1201

Caution: The supplied AC Power Cord should not be connected to the Rear Panel of the MC1201 Amplifier until after the Loudspeaker Connections have been made and the supplied protective Terminal Connections Cover has been installed. Failure to observe this could result in Electric Shock.

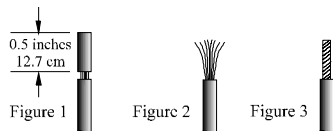
1. For Remote Power Control, connect a power control cable from the Control Center or Preamplifier Power Control Out to the MC1201 Power Control In.
2. Connect a cable from the Balanced Output of a McIntosh Preamplifier or Control Center to the MC1201 Balanced Input.

Note: An optional hookup is to use an unbalanced cable.

3. Prepare the Loudspeaker Hookup Cable that attach to the MC1201 Power Amplifier by choosing one of the methods below:

Bare wire cable ends:

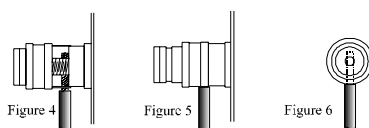
Carefully remove sufficient insulation from the cable ends, refer to figures 1, 2 & 3. If the cable is stranded, carefully twist the strands together as tightly as possible.



Note: If desired, the twisted ends can be tinned with solder to keep the strands together, or attach spade lug and/or banana connector.

Spade lug or prepared wire connection:

Insert the spade lug connector or prepared section of the cable end into the terminal side access hole, and tighten the terminal cap until the cable is firmly clamped into the terminal so the wires cannot slip out. Refer to figures 4, 5 & 6.



Banana plug connection:

Insert the banana plug into the hole at the top of the terminal. Tighten the top portion of the terminal post and the set screw to secure the banana plug in place.

Note: The use of Banana Plugs is for use in the United States and Canada only.

4. Connect the loudspeaker hookup cable to the output terminals that match the impedance of your loudspeaker, being careful to observe the correct polarities. Output impedance connections of 2 ohms, 4 ohms and 8 ohms are provided. If the impedance of your loudspeaker is in-between the available connections, use the nearest lower impedance connection.

WARNING: Loudspeaker terminals are hazardous live and present a risk of electric shock. For additional instruction on making Loudspeaker Connections contact your McIntosh Dealer or McIntosh Technical Support.

5. Attach the supplied Terminal Connections Cover with the four Philip Head Mounting Screws (10-32 x 1/2 inch) to the Rear Panel of the MC1201 Amplifier. Refer to figure 7.

Note: There are six openings on the bottom edge of the cover to allow for the Loudspeaker's Cable to exit the MC1201. The Rear Chassis Handle ("U" shaped) has tapped screw openings on both sides for securing the cover to the MC1201.

6. Connect the MC1201 power cord to an active AC outlet.

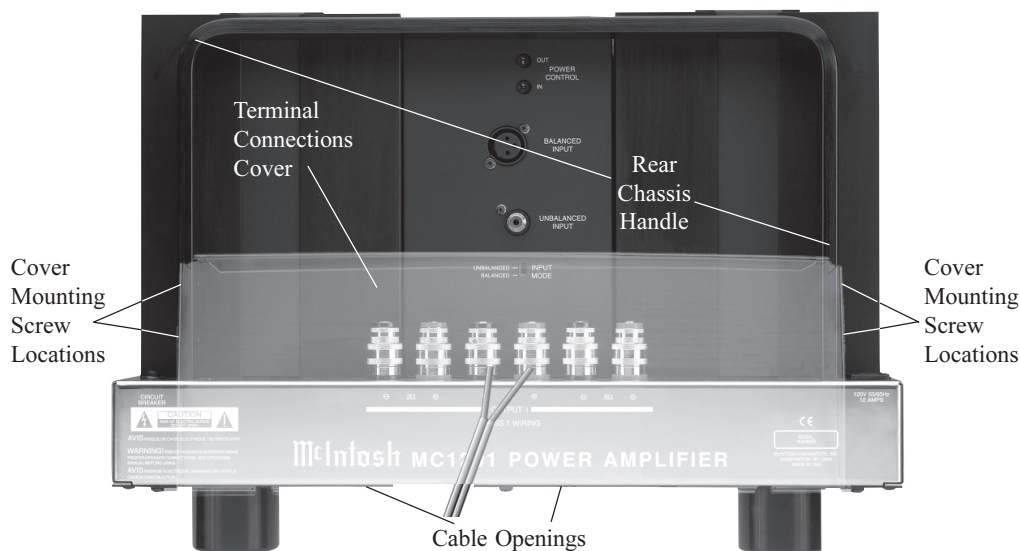
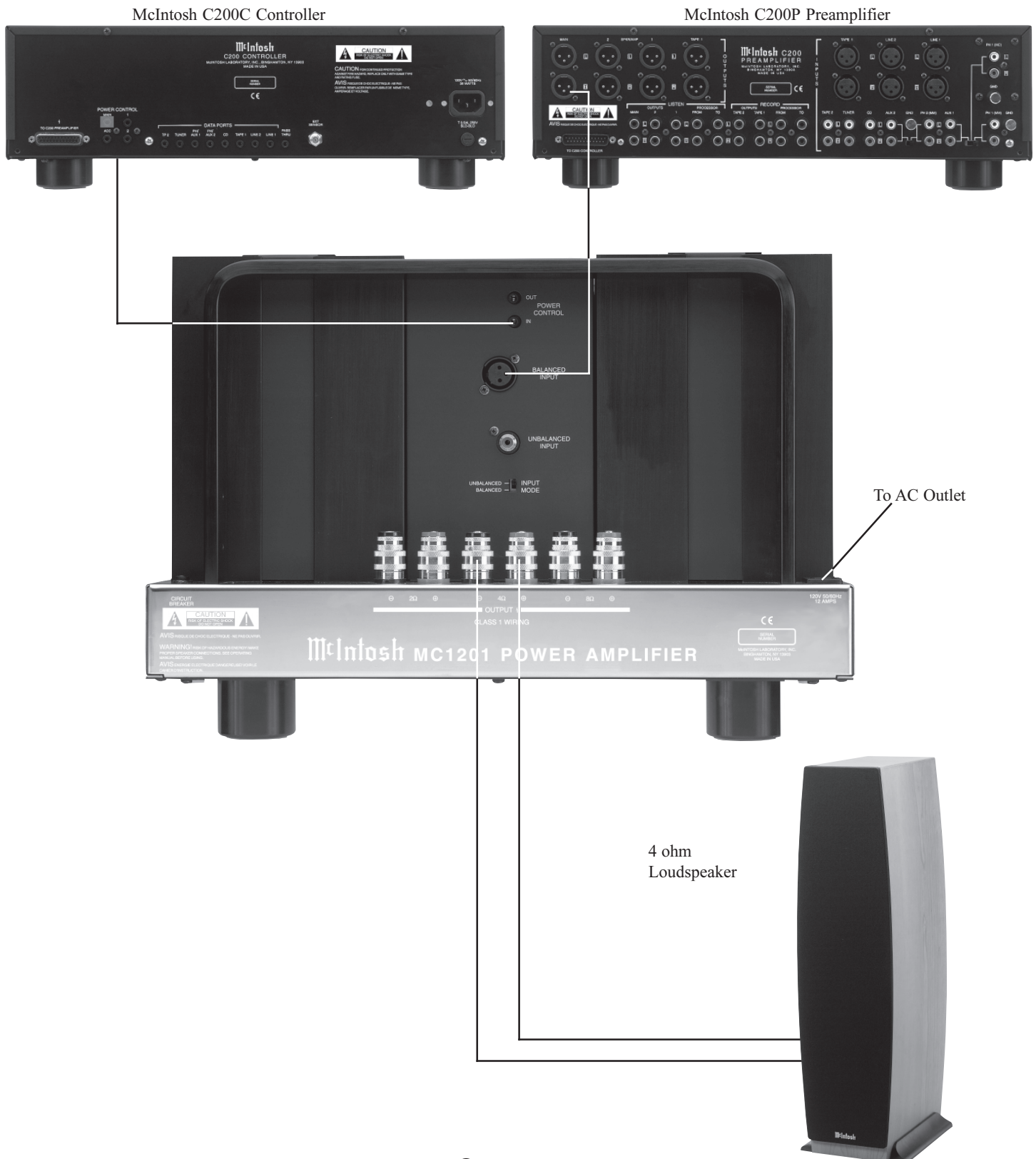
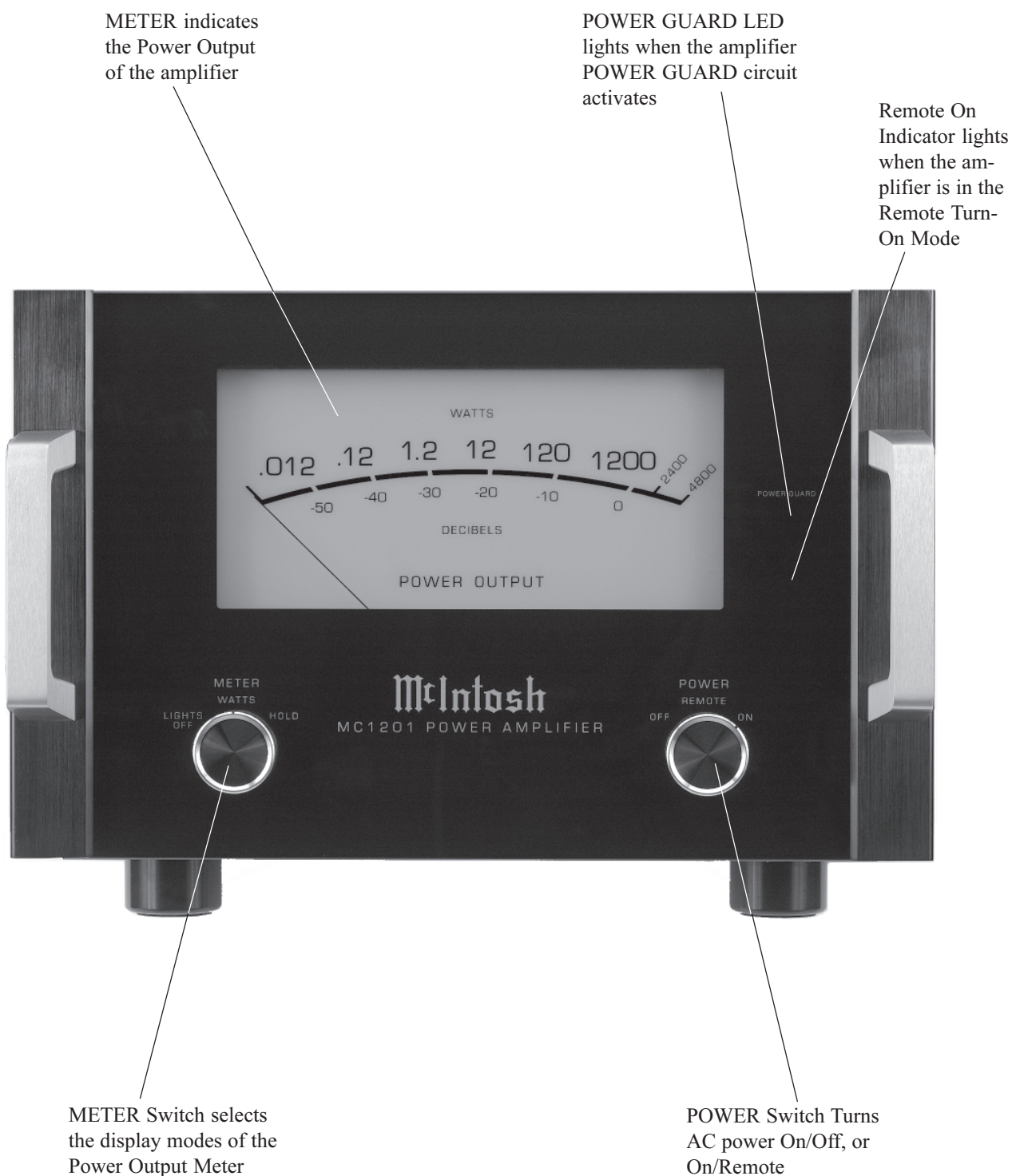


Figure 7



Caution: The Loudspeaker \ominus Negative Connections are above chassis ground. Do not combine any connections together, ground them or connect with another MC1201



How to Operate the MC1201

Power On

To have the MC1201 automatically turn On or Off when a control center turns on or off, rotate the power switch to the remote position. For manual operation, rotate the power switch to the On or Off position as desired. Refer to figure 8.

Note: There must be a power control connection between the MC1201 and the McIntosh Control Center, in order for the remote power turn-on to function.

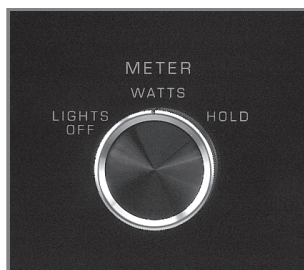


Figure 8

Meter Selection

Rotate the meter mode switch to select the meter operation mode you desire. Refer to figures 9 and 10.

Lights Off - Meter lights are turned off and the meter will continue to indicate the power output.

Watts - The meters respond to all the musical information being produced by the amplifier. They indicate to an accuracy of at least 95% of the power output with only a single cycle of a 2000Hz tone burst.

Hold - The meter pointer is locked to the highest power peak in a sequence of peaks. It is electronically held to this power level until a higher power peak passes through the ampli-



Figure 9

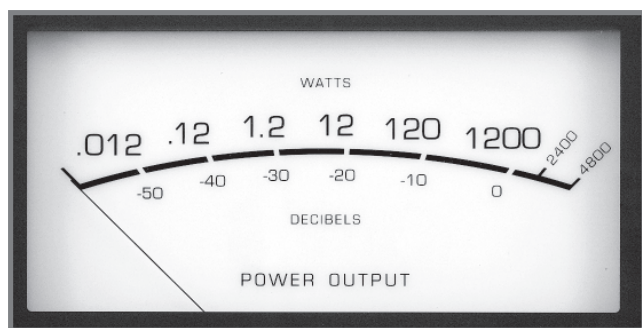


Figure 10

fier. The meter pointer will then rise to the newer higher indication. If no further power peaks are reached, the meter pointer will very slowly return to its rest position or lower

power level. The decay rate is approximately 6dB per minute.

Note: The MC1201 Power Output Meter indicates the actual wattage delivered to the loudspeakers by responding to the combination of current and voltage output.

Input Mode Switch

The Input Mode Switch, which is located on the Rear Panel of the MC1201, allows you to select either the Balanced or Unbalanced Input. Refer to figure 11.



Figure 11

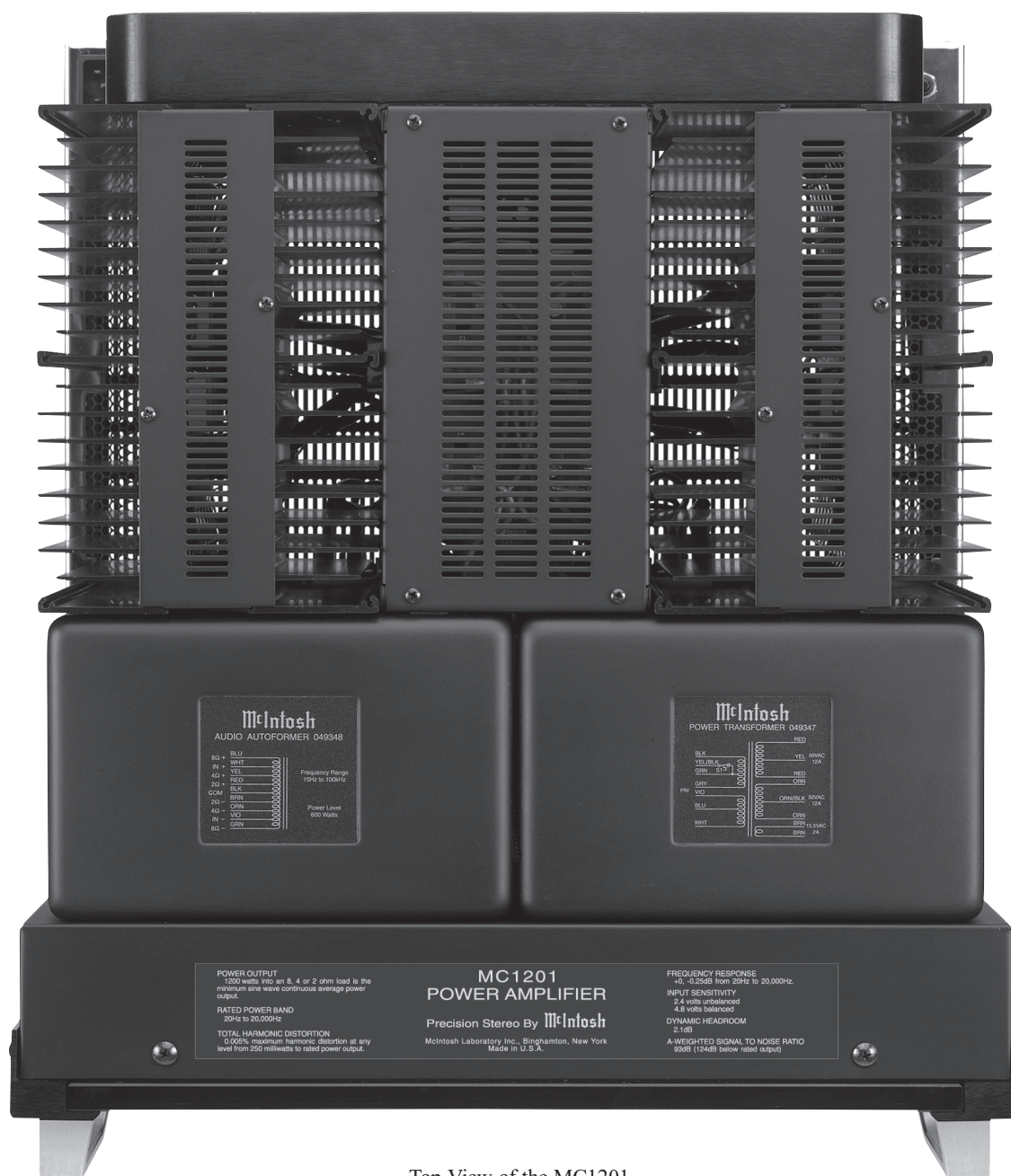
Technical Description

McIntosh Laboratory, the company who introduced the world's first amplifier that could be called "High Fidelity", has done it again. The McIntosh engineering staff has created a power amplifier without compromise, using the most advanced McIntosh circuit design concepts.

A continuous average power output rating of 1,200 watts and with an output current of greater than 200 amperes, makes this not only the most advanced, but also the most powerful amplifier McIntosh has ever manufactured. The distortion limits for the MC1201 are no more than 0.005% at rated power output for all frequencies from

20Hz to 20,000Hz. Typical performance at mid frequencies is less than 0.002%. The true distortion readings on the MC1201 are so low, it takes special measuring techniques to make accurate readings. The MC1201 can deliver the best possible performance from any type of high quality loudspeaker system.

Creating an amplifier with this level of performance did not come easily. Many months of design, testing and measuring were required. Extensive controlled listening tests, the ultimate form of measuring, were made before the final design was accepted.



Top View of the MC1201

Design Philosophy

The design philosophy incorporated in the MC1201 involved several different techniques, all based on sound scientific logic. Every stage of voltage or current amplification must be as linear as possible prior to the use of negative feedback. McIntosh engineers know how to properly design negative feedback circuits so they contribute to the extremely low distortion performance expected from a McIntosh amplifier. The typical McIntosh owner would never accept the approximately 100 times higher distortion of many non-feedback designs.

Double Balanced Push-Pull design is used from input to output. Each half of the amplifier contains complimentary balanced circuitry. The resulting double balanced configuration cancels even order distortion. Refer to figure 12.

All transistors are selected to have nearly constant current gain over the entire current range they must cover. Output transistors in particular, have matched uniform current gain, high current bandwidth product and large active region safe operating area. An automatic tracking bias system completely eliminates any trace of crossover distortion. Precision metal film resistors and low dielectric absorption film capacitors are used in all critical circuit locations.

The output signals of the two balanced circuits are coupled together in the unique McIntosh MC1201 Output Autoformer. It provides low distortion power transfer at frequencies from below 20Hz to well beyond 20,000Hz with optimum impedance points of two ohms, four ohms and eight ohms. The unequaled expertise of McIntosh in the design and manufacturing of autoformers is legendary in the high fidelity industry.

The high efficiency circuit design of the MC1201 contributes to low operating temperatures. More than 290 square inches of heat sink area keep the MC1201 operating safely with convection cooling. No fans are needed.

Autoformers

All solid state power amplifier output circuits work best into what is called an optimum load. This optimum load may vary considerably from what a loudspeaker requires. In the case of more than one loudspeaker connected in parallel, the load to the power amplifier may drop to two ohms or even less. A power amplifier connected to a load that is lower than optimum, causes more output current to flow, which results in extra heat being generated in the power output stage. This increase in temperature will result in a reduced life expectancy for the amplifier.

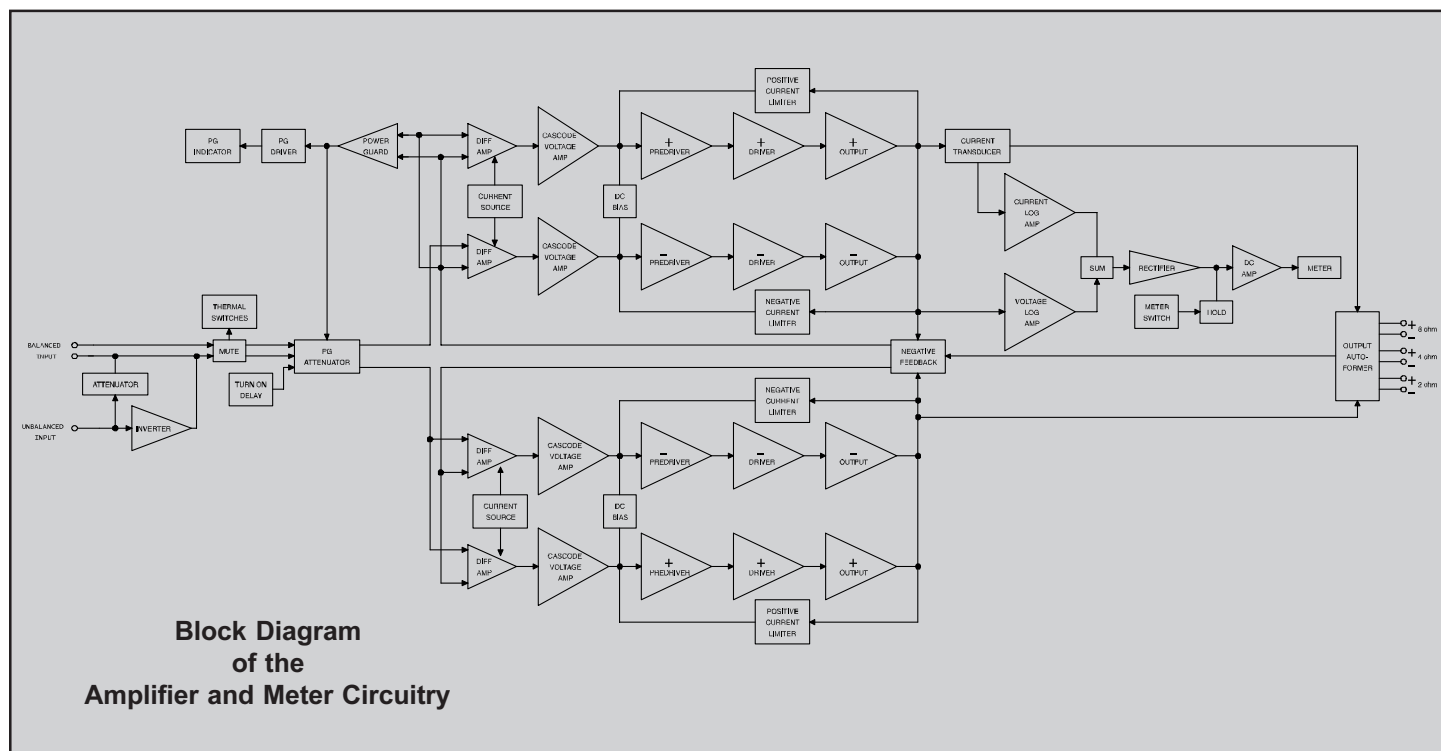


Figure 12

McIntosh

The special Balanced Dual Core Autoformer creates an ideal match between the power amplifier output stage and the loudspeaker. A McIntosh amplifier with an Autoformer can be used to safely drive multiple speakers without reducing the life expectancy of the power amplifier. Refer to figure 13.

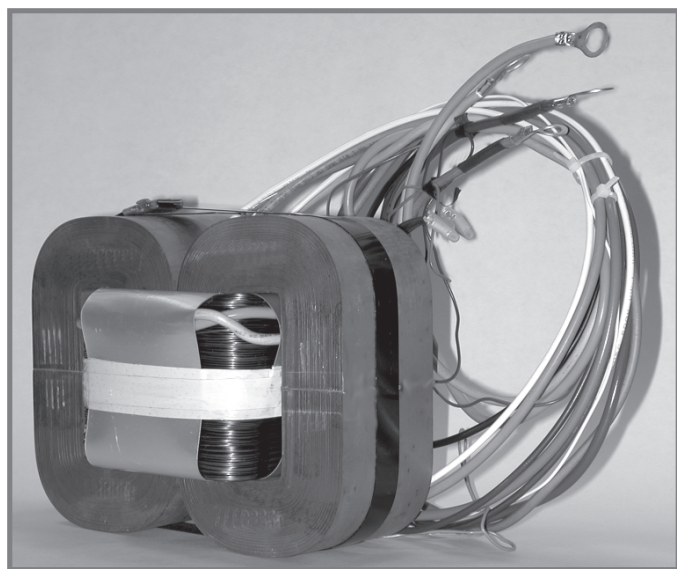


Figure 13

There is absolutely no performance limitation with an Autoformer. Its frequency response exceeds that of the output circuit itself, and extends well beyond the audible range. Its distortion level is so low it is virtually impossible to measure.

In the rare event of a power amplifier output circuit failure, the McIntosh Autoformer provides absolute protection from possible damage to your valuable loudspeakers. The unequalled expertise of McIntosh in the design and manufacturing of Autoformers is legendary in the high fidelity industry. McIntosh engineers know how to do it right.

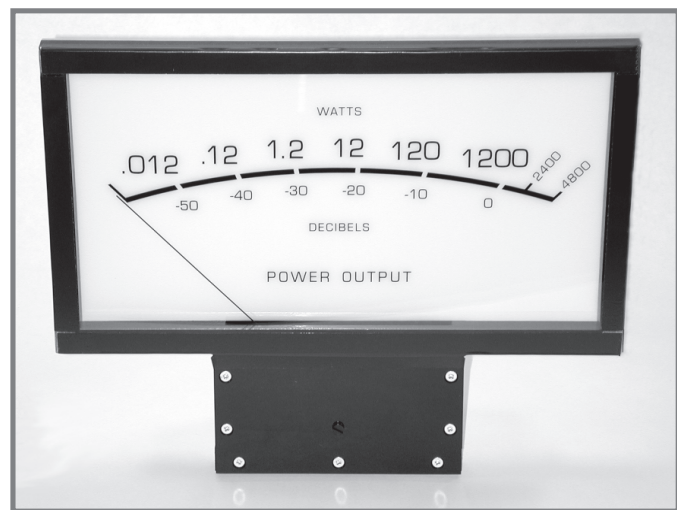


Figure 14

Power Output Meter

The McIntosh MC1201 has a huge hand built Output Watt Meter that responds 95% full scale to a single cycle tone burst at 2kHz. Refer to figure 14. Voltage and current output are electronically measured, multiplied and fed to a special circuit that accelerates the pointer movement in the upward direction. When the pointer reaches its peak it pauses only long enough for the human eye to perceive its position, then drops. It is almost 10 times faster than a professional VU meter.

A front panel switch is provided to change the meter to the Watts Hold Mode of operation. This allows fast upward movement of the pointer but greatly increases Hold Time at the peak of its travel. The highest power output of the source material is thus recorded.

Protection Circuits

The MC1201 incorporates a version of the McIntosh Sentry Monitor Output Transistor Protection Circuit. Refer to Figure 15. There is absolutely no compromise in sonic performance with this circuit, and it ensures safe operation of the amplifier under even the most extreme operating conditions. The different types of protection circuits incorporated in the MC1201 insure a long and safe operating life.

This is just one of the many characteristics of McIntosh Power Amplifiers that make them world famous.

The MC1201 also includes the unique patented McIntosh Power Guard circuit.

Power Guard eliminates the possibility of ever overdriving the amplifier into clipping. Refer to figures 16, 17 and 18. An overdriven amplifier can produce both audible and inaudible distortion levels exceeding 40%. The audible distortion is unpleasant to hear, but the inaudible ultrasonic distortion is also undesir-

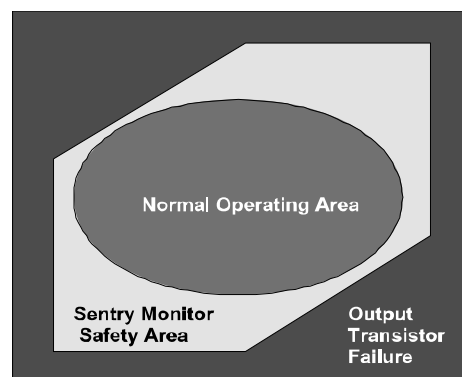


Figure 15

Input Test Signal



Figure 16

able, since it can damage valuable loudspeaker system tweeters. You will never experience the harsh and damaging distortion due to clipping.

The Power Guard circuit is a waveform comparator, monitoring both the input and output waveforms. Under normal operating conditions, there are no differences between the shape of these waveforms. If an amplifier channel is overdriven, there will be a difference between the two signal waveforms. When the difference exceeds 0.3% (equivalent to 0.3% harmonic distortion), the Power Guard activates the PG light and a dynamic electronic attenuator at the amplifier input reduces the input volume just enough to prevent any further increase in distortion. The Power Guard circuit acts so fast that there are absolutely no audible side effects and the sonic purity of the music reproduction is perfectly preserved. The MC1201 Power Amplifier with Power Guard is not limited to just the rated power output, but will actu-

Without Power Guard

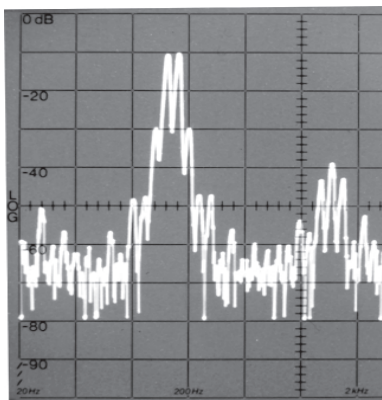


Figure 17

With Power Guard

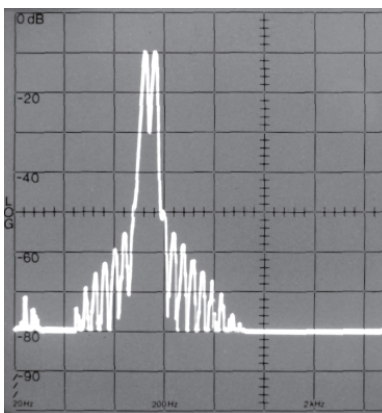


Figure 18

ally produce distortion free output well above its rated power due to the McIntosh philosophy of conservative design.

Power Supply Circuits

To compliment the fully balanced design of the MC1201 there are two high voltage power supplies; one for each of the two amplifier circuits, allowing each amplifier circuit to be optimized using its own power supply. Refer to figure 19. High power amplifiers draw high current from the AC power line. Therefore, it is important that they plug directly into the wall outlet.

Also, most owners desire that there be one power switch for the whole audio system. The MC1201 is equipped with a circuit that provides remote Power Control from your McIntosh Preamplifier or Control Center. When you turn on your preamplifier a digital "1" (+5V) signal operates the power relay in the MC1201. The MC1201 also has a remote Power Control Out Jack. The Power Control signal from this jack is delayed by a fraction of a second so that the turn on power surge of the next power amplifier occurs at a later time. This helps prevent power circuit overload that could trip circuit breakers or blow fuses, a very important feature in a high power Home Theater System employing three MC1201 Power Amplifiers.

The MC1201 can provide greater than 200 amperes peak output current to drive uneven speaker loads. Some poor speaker designs have input impedance that dip to 1 or 2 ohms at various frequencies and the MC1201 has the output current reserve to drive them. It can deliver over 1,000 Watts Output on tone bursts. The MC1201 has huge main filter capacitors that guarantee an excellent signal to noise ratio and the energy storage necessary for the wide dynamic range that "Digital Audio" demands.

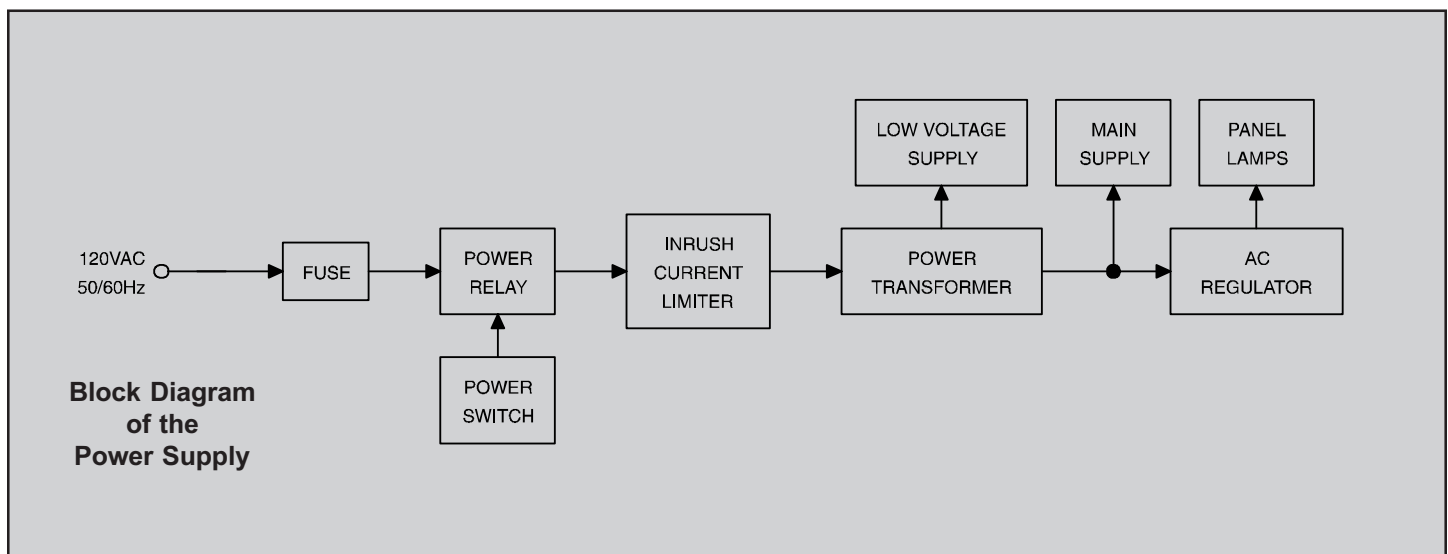
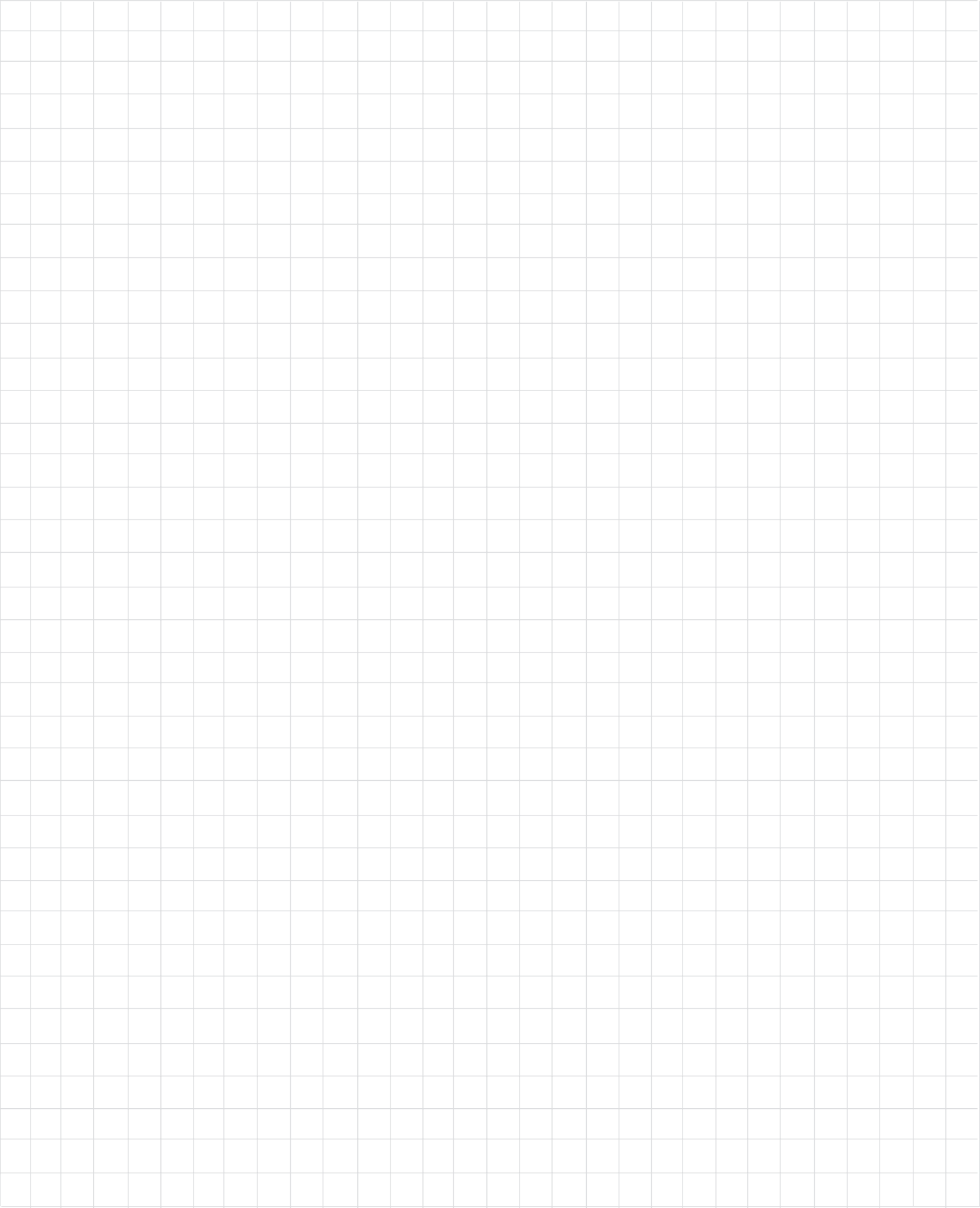
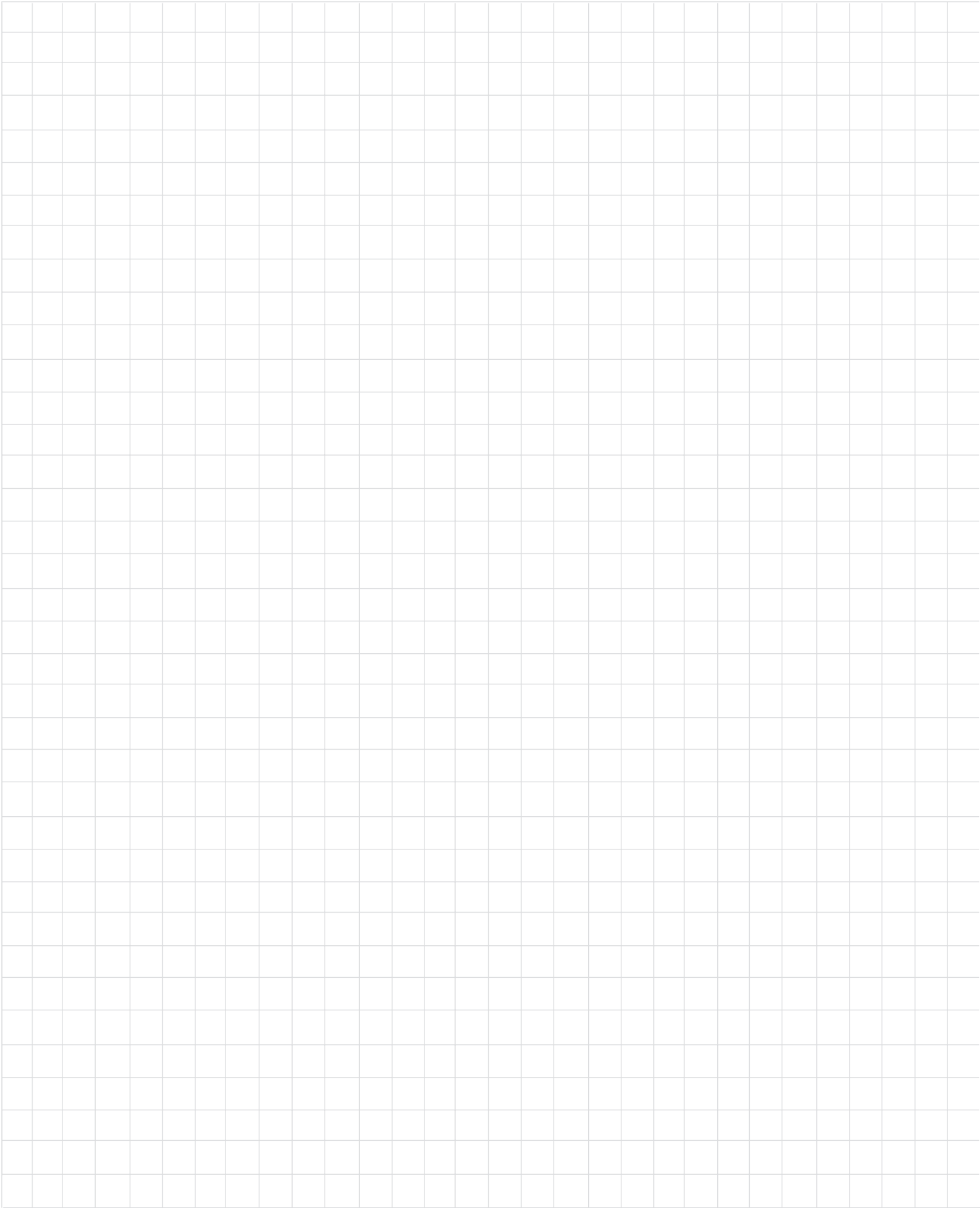


FIGURE 19





Specifications

Power Output

Minimum sine wave continuous average power output is:
1,200 watts into 2 ohm load
1,200 watts into 4 ohm load
1,200 watts into 8 ohm load

Rated Power Band

20Hz to 20,000Hz

Total Harmonic Distortion

Maximum Total Harmonic Distortion at any power level from 250 milliwatts to rated power output is:
0.005% for 2, 4 or 8 ohm loads

Dynamic Headroom

2.1dB

Frequency Response

+0, -0.25dB from 20Hz to 20,000Hz
+0, -3dB from 10Hz to 100,000Hz

Sensitivity

2.45 Volts Balanced Input
4.9 Volts Unbalanced Input

A-Weighted Signal To Noise Ratio

93dB Unbalanced (120dB below rated output)
97dB Balanced (124dB below rated output)

Intermodulation Distortion

Maximum Intermodulation Distortion if instantaneous peak output does not exceed twice the rated output, for any combination of frequencies from 20Hz to 20,000Hz is:
0.005% for 2, 4 or 8 ohm loads

Input Impedance

10,000 ohms Balanced or Unbalanced Inputs

Wide Band Damping Factor

100 @ 8ohms

Power Requirements

100 Volts, 50/60Hz at 18 amps
110 Volts, 50/60Hz at 16.5 amps
120 Volts, 50/60Hz at 15 amps
220 Volts, 50/60Hz at 8.2 amps
230 Volts, 50/60Hz at 7.8 amps
240 Volts, 50/60Hz at 7.5 amps

Note: Refer to the rear panel of the MC1201 for the correct voltage.

Dimensions

Front Panel: 17-3/4 inches (46cm) wide, 11 inches (28cm) high. Depth behind front mounting panel is 19-5/8 inches (49.83cm). Clearance required in front of the Front Panel is 1-3/4 inches (4.5cm) for handles.

Weight

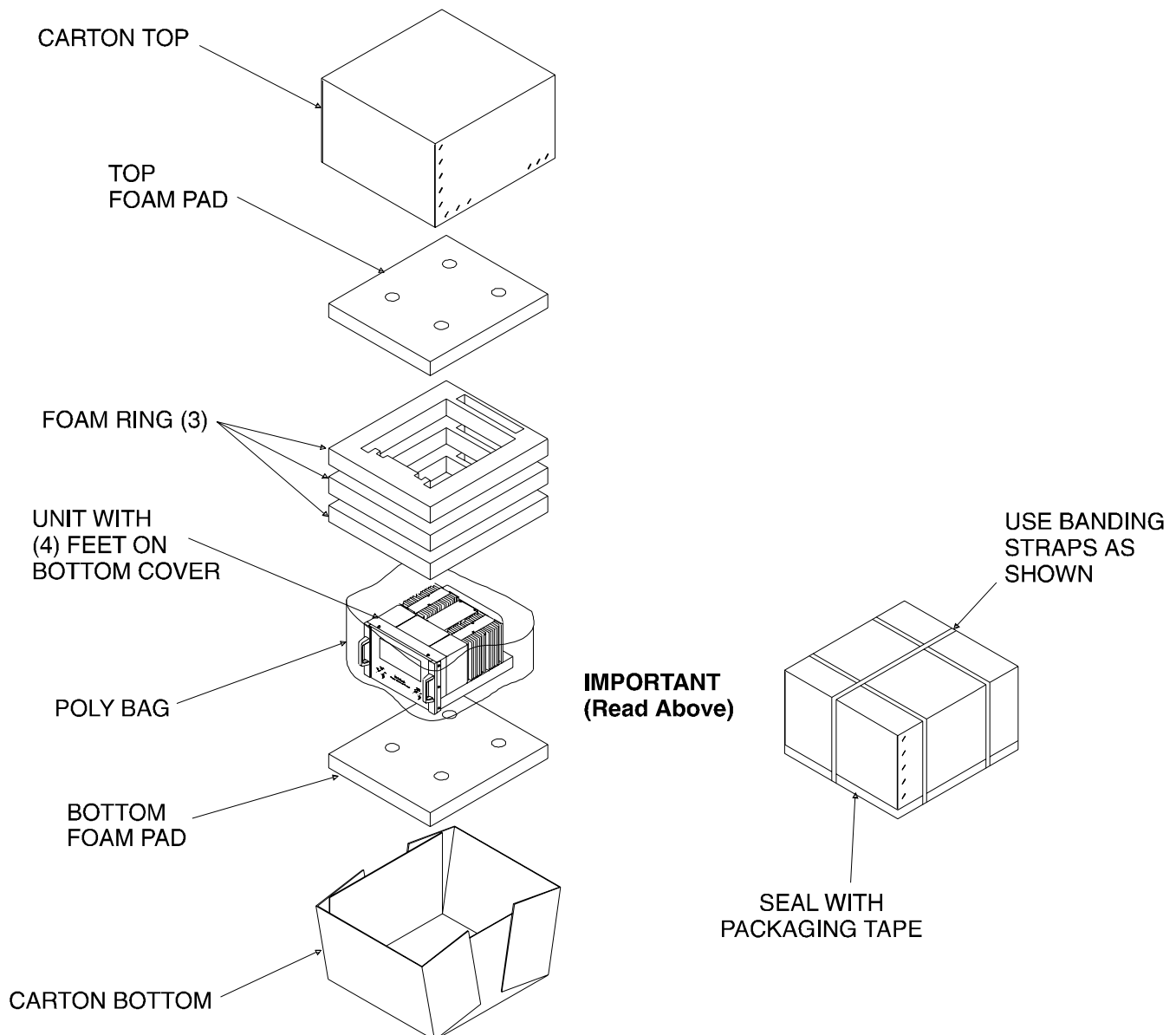
147 pounds (66.7 kg) net, 172 pounds (78.0 kg) in shipping carton

Packing Instructions

In the event it is necessary to repack the equipment for shipment, the equipment must be packed exactly as shown below. It is very important that the four feet are attached to the bottom of the equipment. This will ensure the proper equipment location on the bottom foam pad. Failure to do this will result in shipping damage.

Use the original shipping carton and interior parts only if they are all in good serviceable condition. If a shipping carton or any of the interior part(s) are needed, please call or write Customer Service Department of McIntosh Laboratory. Please see the Part List for the correct part numbers.

Quantity	Part Number	Description
1	034104	Shipping carton bottom
1	034105	Shipping carton top
1	033003	Poly bag
4	018445	Feet
3	034106	Foam ring
2	034107	Foam pad (top and bottom)



McIntosh®

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