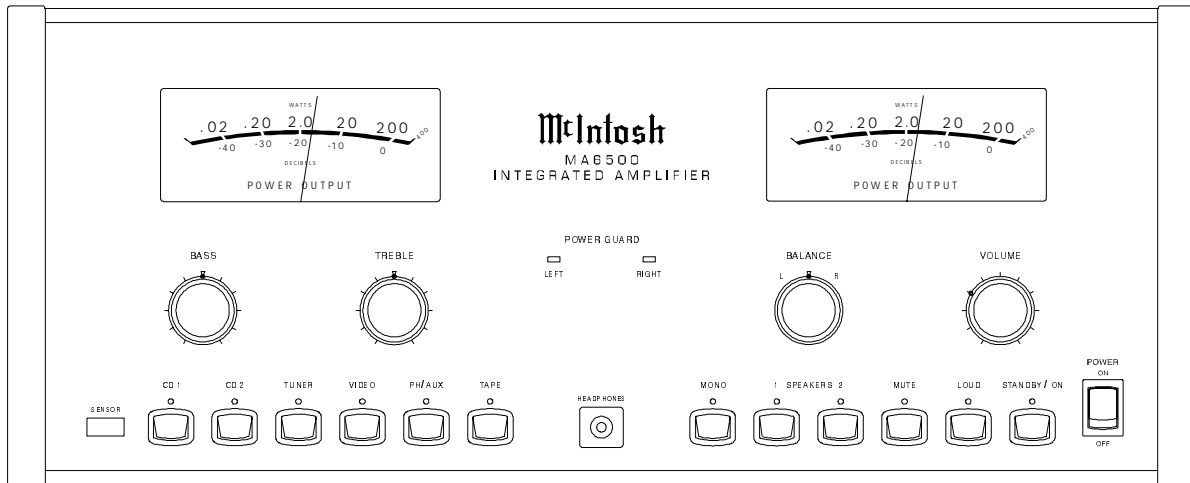


## MA6500 Integrated Amplifier



## MA6500

### Thank You

Your decision to own this McIntosh MA6500 Integrated 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: 607-723-3512  
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 Repair department. For assistance on factory repair return procedure, contact the McIntosh Repair Department at:

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

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### NOTES:

1. *Connecting Cables are available from the McIntosh Parts Department:*  
**Data and Power Control Cable Part No. 170-202**  
*Six foot, shielded 2 conductor, with 1/8 inch stereo mini phone plugs on each end.*
2. *For additional connection information, refer to the owner's manual(s) for any component(s) connected to the MA6500 Integrated Amplifier.*
3. *There is a built-in turn on delay which will mute the speaker outputs for approximately two seconds when the amplifier is turned on.*
4. *It is very important that loudspeaker cables of adequate size be used in your music system, to ensure that there will be no power loss or heating. Cable 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 25 feet (7.62m) or less, use 16 Gauge (AWG) wire size or larger.*  
*If your loudspeaker cables are 50 feet (38.1m) or less, use 14 Gauge (AWG) wire size or larger.*  
*If your loudspeaker cables are 100 feet (76.2m) or less, use 10 Gauge (AWG) wire size or larger.*
5. *In the event that MA6500 Integrated Amplifier over heats, due to improper ventilation and/or extremely high ambient temperature, the built in protection circuits will activate. The MA6500 Front Panel Power Guard LED's will both continuously indicate On and the audio output signal will be muted. When the temperature of the MA6500 has returned to a safe condition, sound will return and the Power Guard Indicators will return to normal operation.*

## IMPORTANT SAFETY INSTRUCTIONS!

**PLEASE READ THEM BEFORE OPERATING THIS EQUIPMENT.**



### **WARNING SHOCK HAZARD - DO NOT OPEN.**

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 - 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.



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**ATTENTION**  
DANGER D'ELECTROCUTION  
NE PAS OUVRIR

### **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. Refer servicing to qualified personnel.

#### **General:**

1. Read all the safety and operating instructions, contained in this owner's manual, before operating this equipment.
2. Retain this owner's manual for future reference about safety and operating instructions.
3. Adhere to all warnings and operating instructions.
4. Follow all operating and use 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. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning or power line surges.
8. Do not use attachments not recommended in this owner's manual as they may cause hazards.

#### **Installation:**

9. Locate the equipment for proper ventilation. For example, the equipment should not be placed on a bed, sofa, rug, or similar surface that may block ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet, that may impede the flow of air through the ventilation openings.
10. Locate the equipment away from heat sources such as radiators, heat registers, stoves, or other appliance (including amplifiers) that produce heat.
11. Mount the equipment in a wall or cabinet only as described in this owner's manual.
12. Do not use this equipment near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
13. Do not place this product on an unstable cart, stand, tripod, bracket, or table. The equipment may fall, causing serious injury to a person, and serious damage to the product.

#### **Connection:**

14. Connect this equipment only to the type of AC power source as marked on the unit.
15. Route AC power cords so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the instrument.
16. Do not defeat the inherent design features of the polarized plug. Non-polarized line cord adapters will defeat the safety provided by the polarized AC plug. If the plug should fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

17. Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.

### Care of Equipment:

18. Clean the instrument by dusting with a dry cloth. Unplug this equipment from the wall outlet and clean the panel with a cloth moistened with a window cleaner. Do not use liquid cleaners or aerosol cleaners.
19. Do not permit objects of any kind to be pushed and/or fall into the equipment through enclosure openings. Never spill liquids into the equipment through enclosure openings.
20. Unplug the power cord from the AC power outlet when left unused for a long period of time.

### Repair of Equipment:

21. Unplug this equipment from the wall outlet and refer servicing to a qualified service personnel under the following conditions:
  - A. The AC power cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled into the equipment.
  - C. The equipment has been exposed to rain or water.
  - D. The equipment does not operate normally by following the operating instructions contained within this owner's manual. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  - E. The equipment has been dropped or damaged in any way.
  - F. The equipment exhibits a distinct change in performance - this indicates a need for service.
22. Do not attempt to service beyond that described in the operating instructions. All other service should be referred to qualified service personnel.
23. 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.
24. 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.

### Introduction

The MA6500 Remote Controlled Integrated Amplifier is a simple but elegant instrument that allows you to enjoy outstanding music reproduction. It includes a wide range of convenient operating functions to enhance your listening experience. The classic McIntosh MA6500 will perfectly complement a McIntosh Loudspeaker System for a stereo system of incomparable performance and style.

### Performance Features

#### ● Power Output

The MA6500 combines a 200 watts per channel power amplifier and a sophisticated control center in one compact unit with less than 0.005% distortion.

#### ● Power Guard

Both channels include 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.

#### ● Electronic Input Switching

Digital Logic integrated circuits drive Electromagnetic switches on all six inputs and operating functions for reliable, noiseless, distortion free switching.

#### ● Speaker Switching

Front panel Speaker push-buttons control two switched outputs that allow you to send signals to two separate pairs of loudspeakers.

#### ● Sentry Monitor and Thermal Protection

McIntosh Sentry Monitor power output stage protection circuits ensure the MA6500 will have a long and trouble free operating life. Built-in thermal protection circuits guard against overheating.

#### ● Illuminated Power Meters

The illuminated power output watt meters on the MA6500 are peak responding, and indicate the power output of the amplifier.

**Installation**

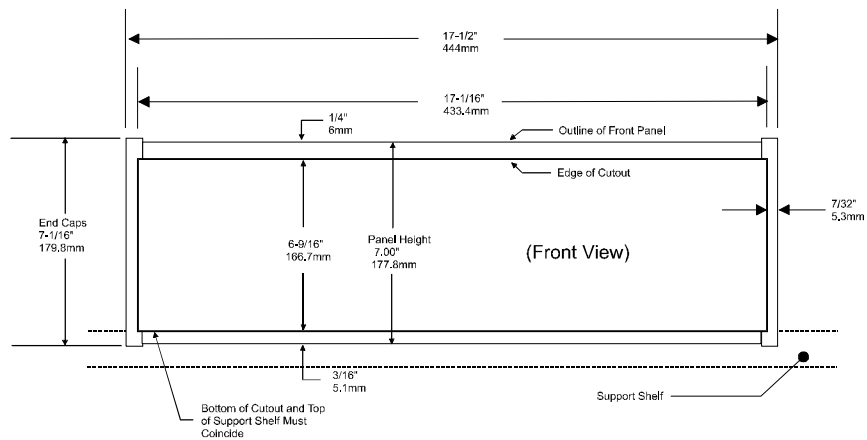
The MA6500 can be placed upright on a table or shelf, standing on its four feet. It also can be custom installed in a piece of furniture or cabinet of your choice. The required panel cutout, ventilation cutout and unit dimensions are shown.

Always provide adequate ventilation for your MA6500. Cool operation ensures the longest possible operating life for any electronic instrument. Do not install the MA6500 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.

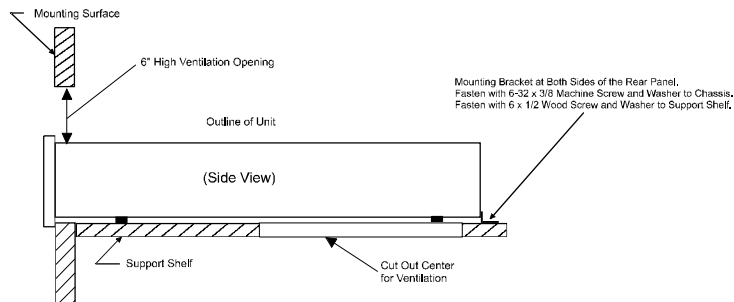
A custom cabinet installation should provide the following minimum spacing dimensions for cool operation. Allow at least 6 inches (15.24 cm) above the top, 2 inches (5.08cm) below the bottom and 1 inch (2.54 cm) on each side of the amplifier, so that airflow is not obstructed. Allow 21 inches (53.3 cm) depth behind the mounting panel, which includes clearance for connectors. Allow 1-1/8 inches (2.9 cm) in front of the mounting panel for knob clearance. Be sure to cut out a ventilation hole in the mounting shelf according to the dimensions in the drawing.

*NOTE: In Europe, if the MA6500 is custom mounted, an additional ventilation opening of 6 inches (15.24 cm) in height, running the full width of the front panel, needs to be directly above the front top of the MA6500.*

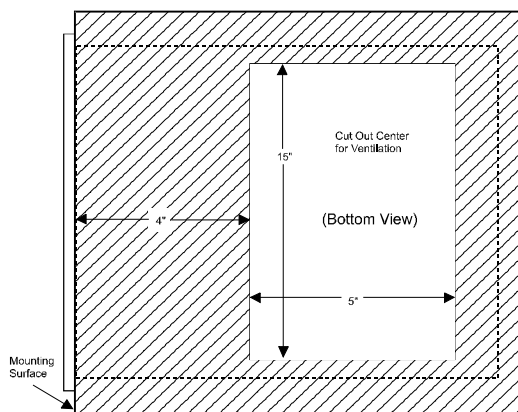
Front View of the MA6500 custom installed



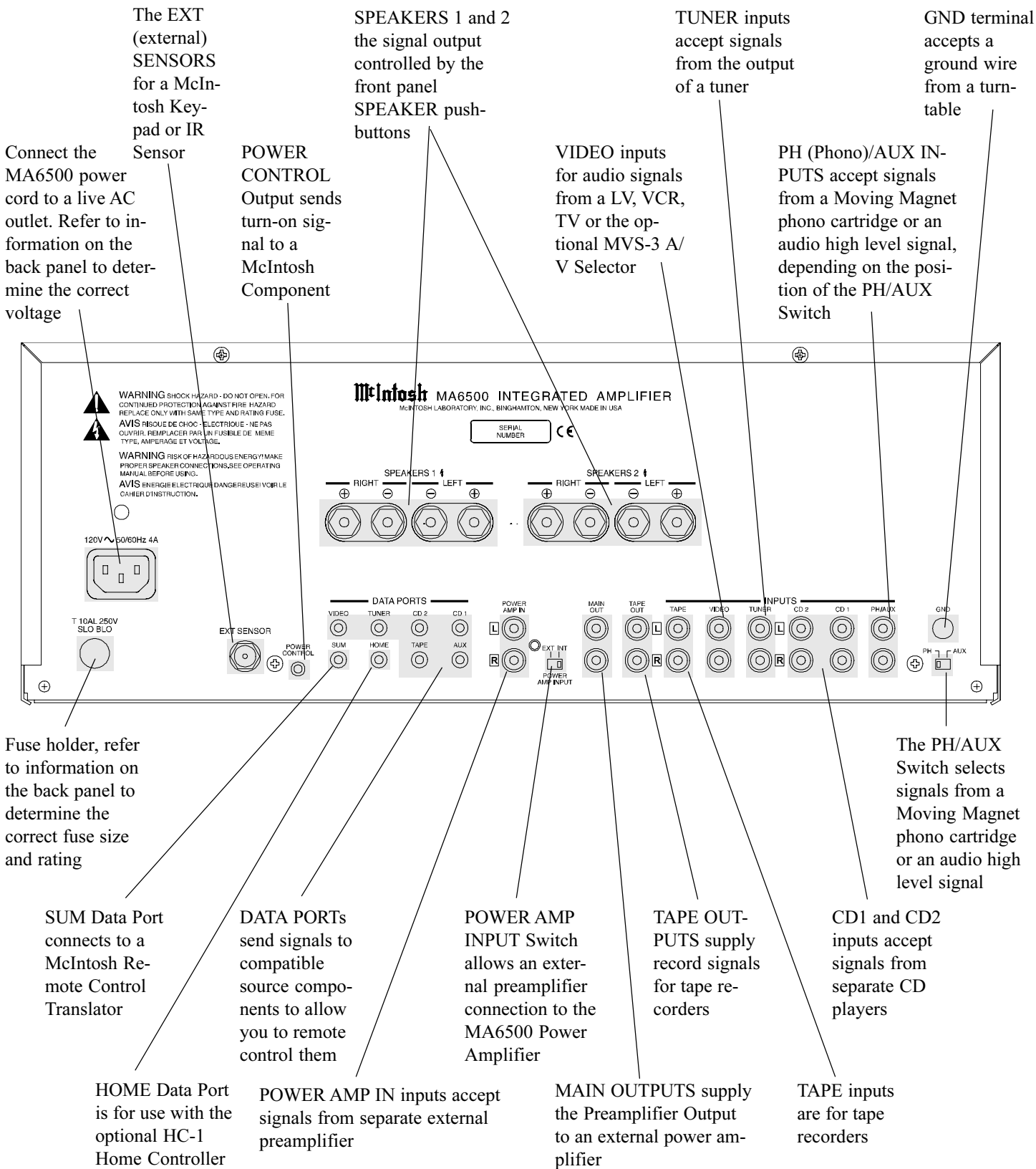
Side View of the MA6500 custom installed



Bottom View of the MA6500 custom installed



### MA6500 Rear Panel Connections

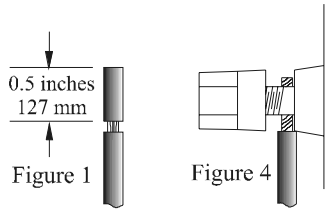


# How to Connect Loudspeakers and Sensor Components

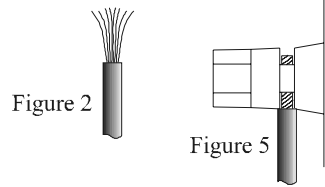
## How to Connect Loudspeakers and Sensor Components

1. Prepare the loudspeaker hookup cables as follows:

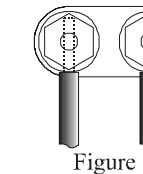
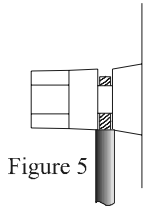
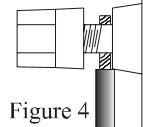
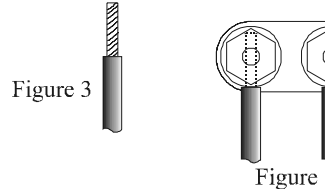
A. Carefully remove sufficient insulation from the loudspeaker cable ends to just fit within the binding post with no exposed wire accessible. Refer to figure 1.



B. If the cable is stranded, carefully twist the strands together as tightly as possible. Refer to figures 2 & 3.



*Note: If desired, the twisted cable section can be tinned with a solder iron to keep the strands together and/or attach appropriate connector ends.*



C. Insert the bare section of the cable end or connector into the access hole, and tighten the terminal nut clockwise until the cable is firmly clamped into the terminal so the wires cannot slip out. Refer to figures 4, 5 & 6.

*Note: The bare sections of the cable ends or the non insulated part of the connectors must not be exposed on either side of the terminal access hole.*

D. Repeats Steps A through C for each speaker cable used with the amplifier.

4. Connect the loudspeaker cables to the appropriate terminals for your loudspeakers, being careful to observe the correct polarities.

5. Install the plastic protective loudspeaker terminal covers that were supplied with your amplifier. Refer to figure 7.

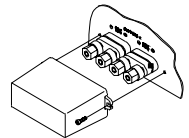
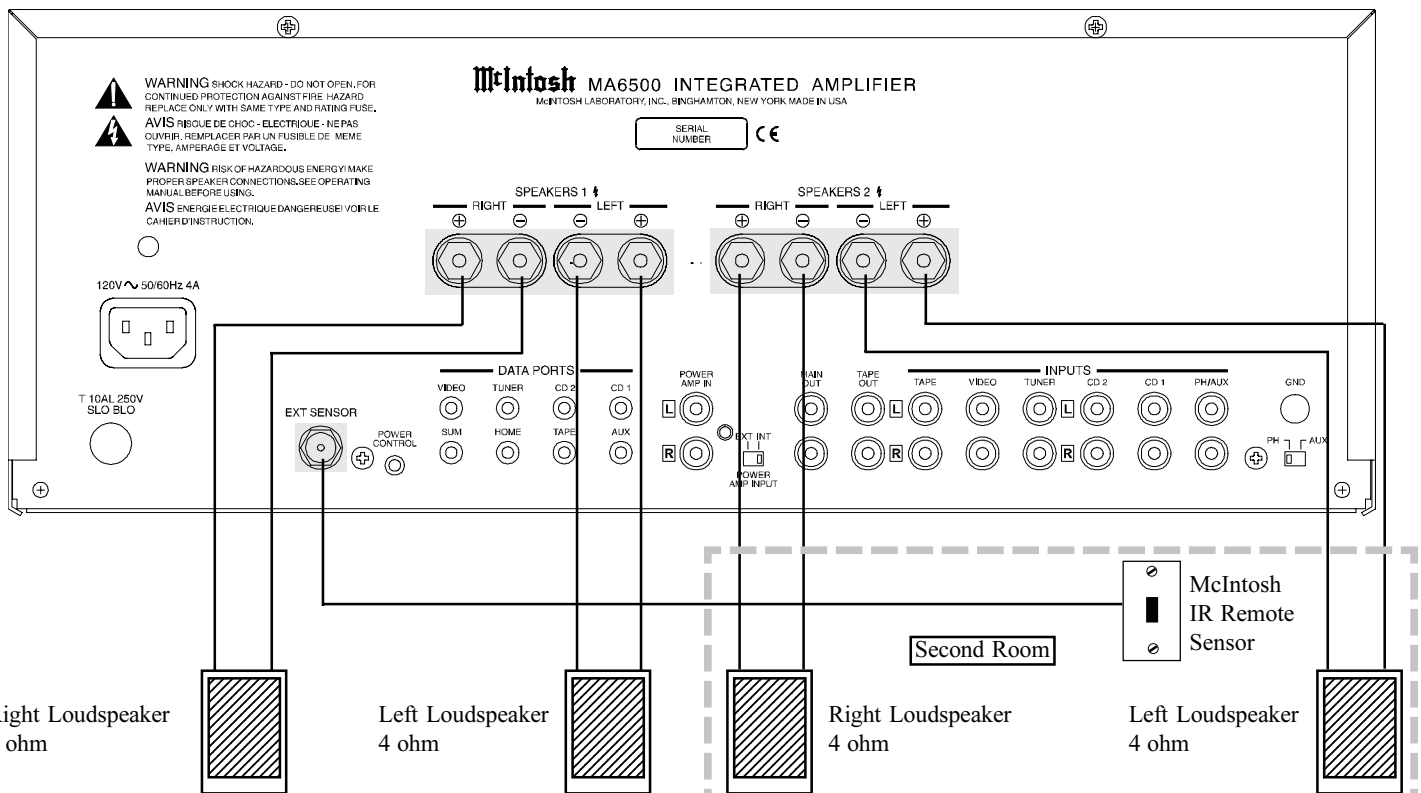


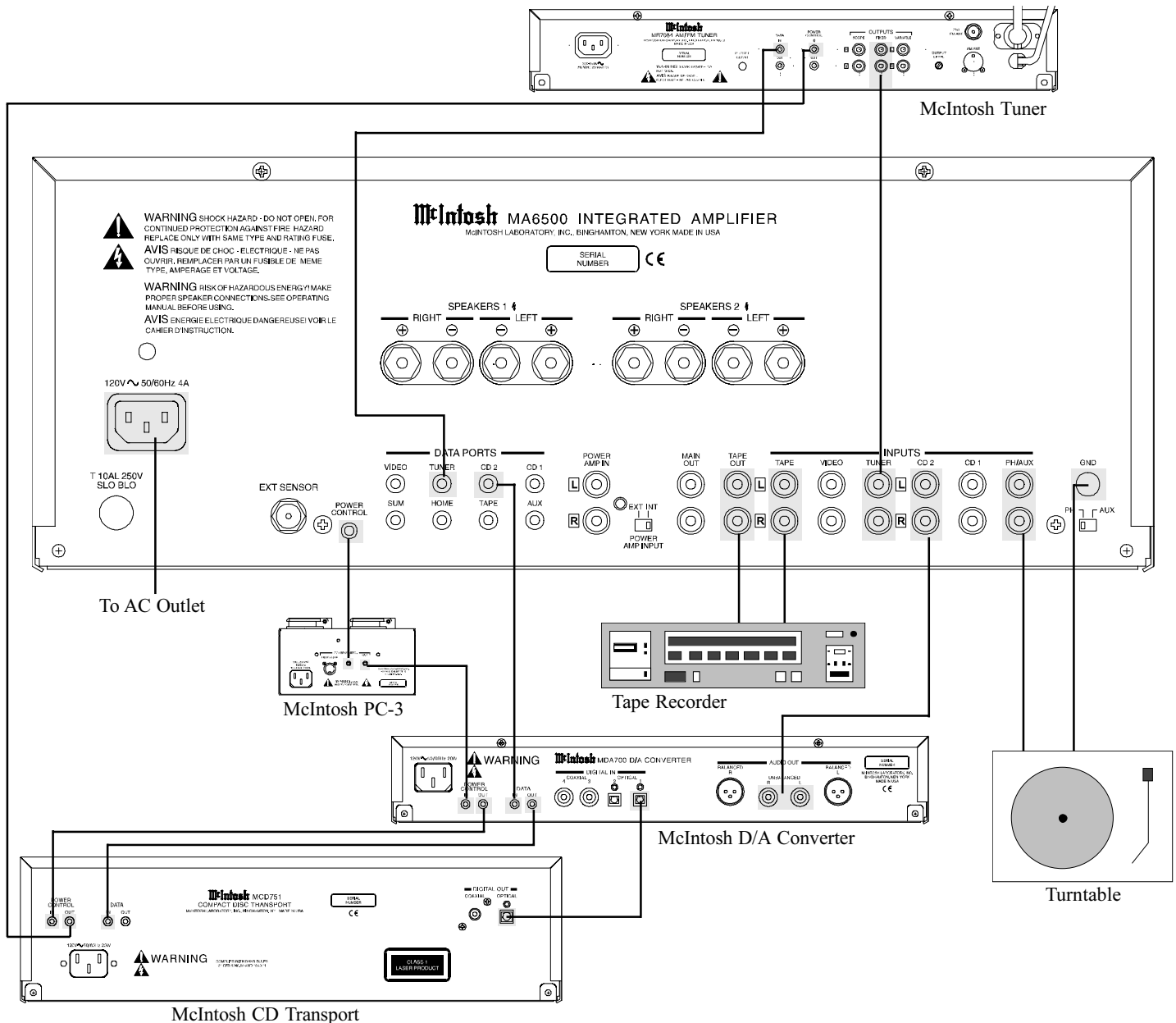
Figure 7

6. Optionally connect a Coax cable from the EXT SENSOR to a McIntosh Wall Sensor or WK-2 Keypad in a second room.



### How to Connect Audio Components

1. Connect the MA6500 power cord to a live AC outlet.
2. Connect a cable from the TAPE 1 OUTPUTS to the Record Inputs of a tape recorder and the TAPE 1 INPUTS to a tape recorder Outputs. Connect a second tape in the same manner to the Tape 2 inputs and outputs.
3. Connect a cable from a McIntosh D/A Converter UNBALANCED outputs to the CD2 INPUTS.
4. Connect a cable from the McIntosh Transport Digital OPTICAL output to the McIntosh D/A Converter Digital OPTICAL input.
5. Connect a cable from a McIntosh Tuner to the TUNER INPUTS.
6. Connect cables from a Turntable to the PH/AUX INPUTS and the Turntable Ground Connection to the GND grounding post.
7. Connect cable(s) from the POWER CONTROL jack to the Power Control In on a McIntosh component or Power Controller.
8. Connect a cable(s) from the DATA PORTS to the components that are to be controlled by the MA6500.





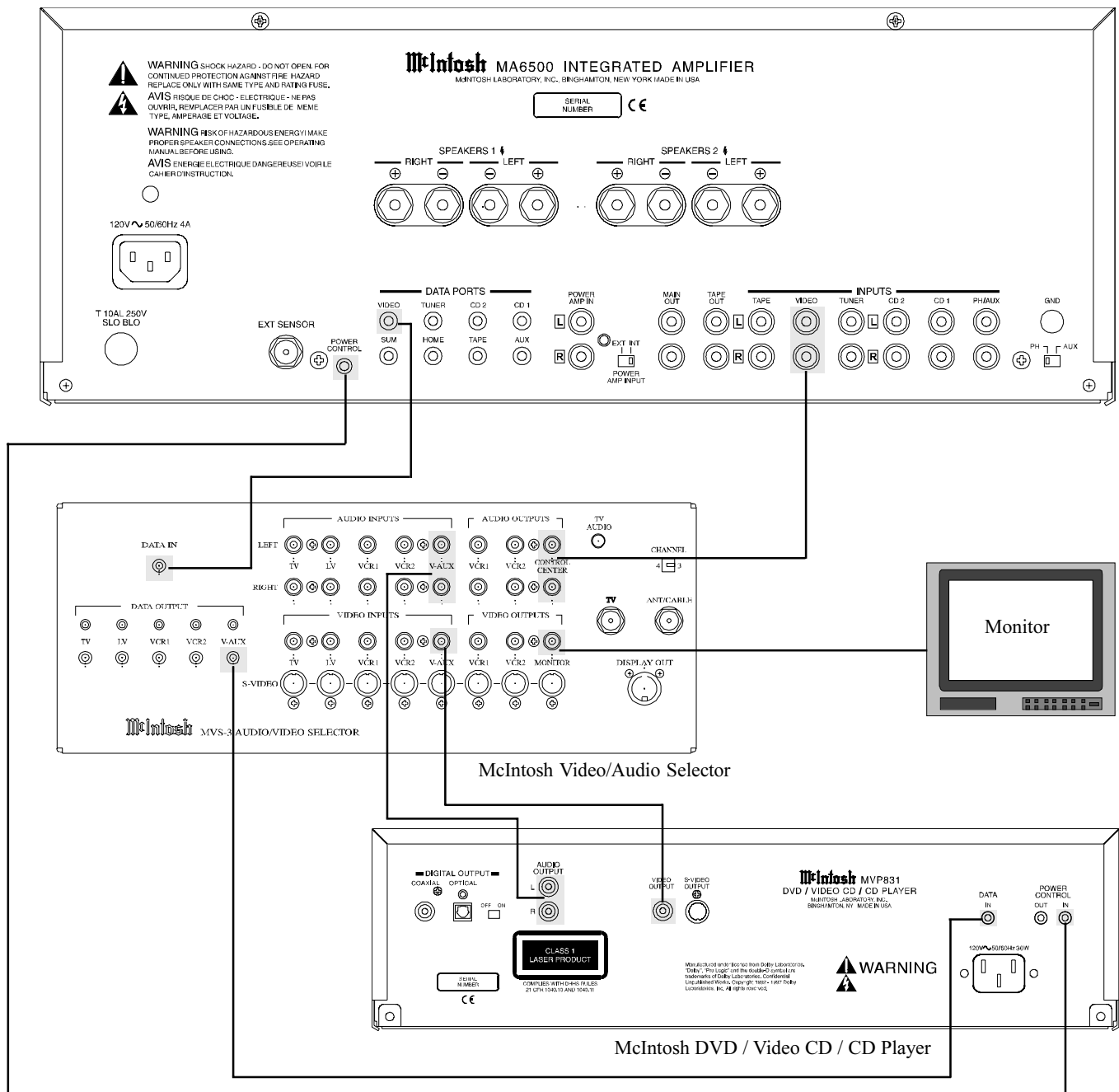
## How to Connect the MA6500 for Video Switching

### How to Connect the MA6500 for Video Switching

1. Connect a Data cable from the MA6500 VIDEO DATA PORT to the MVS-3 DATA IN jack.
2. Connect the MVS-3 CONTROL CENTER AUDIO OUTPUTS to the MA6500 VIDEO INPUTS.
3. Connect the MVS-3 VIDEO MONITOR OUTPUT to a TV or Monitor.
4. Connect a McIntosh DVD/CD Player Audio Outputs to

the MVS-3 V-AUX AUDIO INPUTS, the Video Output to the MVS-3 VIDEO INPUT and the Control Out to the MVS-3 DATA OUTPUT jack.

- Note: The S-Video Connections may also be used when the Monitor/TV supports them.
5. Connect other video source components to the appropriate audio and video and data jacks on the MVS-3.



### MA6500 Front Panel Controls, Push-Buttons and Switch

BASS control provides 12dB boost or cut with a flat center position

TREBLE control provides 12dB boost or cut with a flat center position

The BALANCE control allows you to adjust the relative volume balance between channels

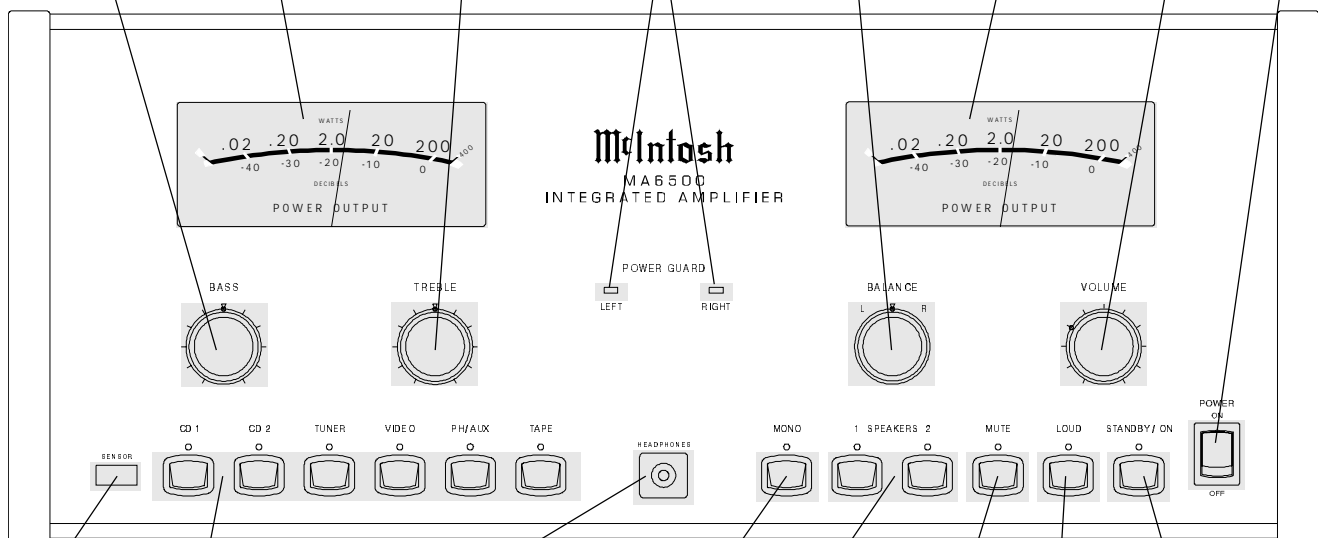
VOLUME control allows you to adjust the listening level of both channels

METER indicates the Left Channel Power Output of the amplifier

POWER GUARD LED's light when the amplifier channel POWER GUARD circuit activates

METER indicates the Right Channel Power Output of the amplifier

POWER switch turns all AC power completely ON or OFF



IR Sensor receives commands from a remote control

HEADPHONES jack allows connection of Stereo Headphones for private listening

SPEAKERS 1 and 2 push-buttons turn the speakers On or Off

LOUDNESS provides frequency response contour to compensate for the behavior of the human ear at softer listening levels

Select any one of the six Audio signal sources

MONO push-button combines the left and right channel signals for Mono operation

MUTE push-button mutes the listening audio

STANDBY/ON push-button turns the MA6500 ON, or OFF (Standby)

## How to Operate the MA6500

### Power On

Press the POWER switch to ON. The Red LED above the STANDBY/ON push-button, lights to indicate the MA6500 is in Standby mode. To turn On the MA6500, press the STANDBY/ON push-button. The MUTE LED will light for approximately two seconds after turn on.

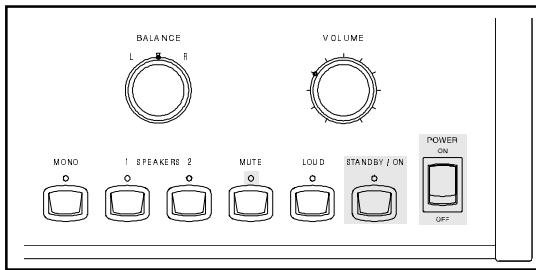


Figure 1

Refer to figures 1 and 2.

*Note: For normal operation, turn the MA6500 On and Off with the Standby/On push-button. If the amplifier is not going to be used for an extended time, turn off all AC power with Power Switch. You may also turn On the MA6500 by simply pressing the desired source selection push-button switch on the Front Panel or Remote Control.*

### Source Selection

Select the desired source with the appropriate push-button switch on the Front Panel or Remote Control. Refer to figures 2 and 3 and page 15 for additional information.

### Volume Control

Adjust the VOLUME control for the desired listening level.

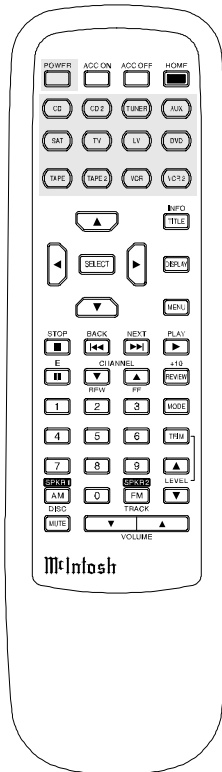


Figure 2

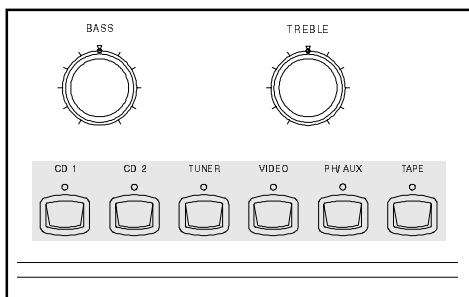


Figure 3

### PH/AUX Inputs

When using a phono player with a moving magnet cartridge connected to the PH/AUX inputs, set the PH-AUX switch to the PH position. When using an auxiliary program source component connected to the PH/AUX inputs, set the PH-AUX switch to the AUX position. Refer to figure 4.

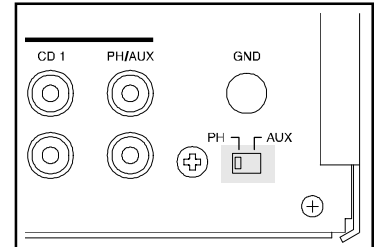


Figure 4

### Balance Control

Adjust the BALANCE control as needed to achieve approximately equal listening volume levels in each loudspeaker. Turn the BALANCE to the Left to emphasize the left channel by reducing the level of the right channel. Turn the BALANCE to the right to emphasize the right channel by reducing the level of the left channel.

### Bass and Treble Controls

Adjust the BASS and TREBLE controls to suit your listening preferences. The bass or treble intensity can be increased with clockwise rotation and decreased with counterclockwise rotation. All tone control circuit elements are removed from the signal path when the controls are in the center or flat position.

### Loud Switch

Press the LOUD push-button to add loudness bass compensation to the volume control for improved low level listening.

### Mono

Press the MONO push-button to combine left and right stereo signals to mono at the SPEAKERS 1 and 2 and HEADPHONES output.

### Mute

Press the MUTE push-button to mute audio in all outputs except the HEADPHONES and TAPE OUTPUT. The MUTE LED above the push-button will flash on and off to indicate that Mute is active. To unmute audio, press MUTE, press the Remote Control Volume push-button(s) or press an Input push-button.

### Speakers 1 and 2

Press SPEAKERS 1 or 2 push-buttons to switch the two pairs of speakers on or off. You can press either push-button individually, or both together. Refer to figure 5.

### Headphones Jack

Connect a pair of dynamic headphones to the Headphones Jack for private listening. Press Mute to mute all other outputs including the amplifier connected to the loudspeakers. Refer to figure 5.

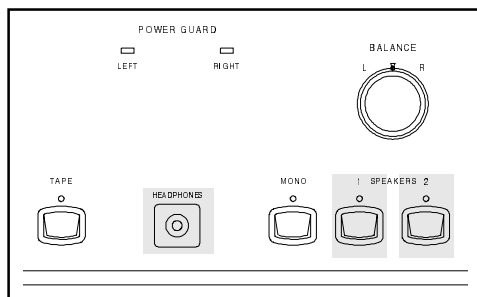


Figure 5

### Reset of Microprocessors

In the event that the controls of the MA6500 stop functioning, push the POWER switch OFF and wait about two minutes. Then push the POWER switch ON followed by pushing the STANDBY/ON push button. This will reset the MA6500 microprocessors and the Integrated Amplifier should be functioning normally.

*Note: The above condition is usually caused by either interruptions in AC power and/or major changes that may occur in AC power line voltage.*

### Using a Separate Power Amplifier

There are two different ways to use a separate power amplifier with a MA6500. The first way is to use the separate amplifier instead of the MA6500 built-in power amplifier. Connect the loudspeakers to the separate power amplifier and set the rear panel POWER AMP INPUT Switch to the EXT position. Refer to figure 6.

*Note: When a separate power amplifier is connected to the MA6500 and the POWER AMP INPUT Switch to the EXT position, the MA6500 Front Panel SPEAKERS Push-button Switches will no longer function.*

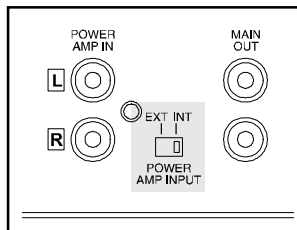


Figure 6

The second way is to use both a separate power amplifier and the MA6500 built-in power amplifier. Connect one pair of loudspeakers to the separate power amplifier and

the second/third pair to the MA6500. Set the rear panel POWER AMP INPUT Switch to the INT position. Refer to figure 6.

*Note: The MA6500 VOLUME Control will affect the sound level of all the loudspeakers.*

### How To Make A Tape Recording

1. Select the source signal you wish to record with the appropriate Front Panel input push-button. If you wish to record from an Audio/Video source connected to the optional MVS-3 Audio/Video Selector, using the Remote Control, select the desired source connected to the MVS-3. Refer to figure 8.
2. Adjust the record level using the tape recorder volume control and proceed with the recording process.
3. To listen to the tape playback of the program source just recorded, press the TAPE input push-button. Refer to figure 7.

*Note: The MA6500 TAPE OUTPUTS are not affected by the VOLUME or BALANCE controls.*

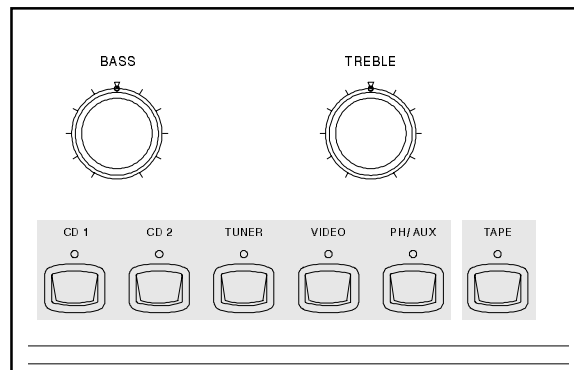


Figure 7

**How to Read the Power Output Meters**

The MA6500 Power Output Meter scales are based on using 2, 4 and 8 ohm loudspeakers. The meters are peak responding and indicate the power output of each channel with high accuracy when the amplifier is reproducing music. Refer to figure 8.

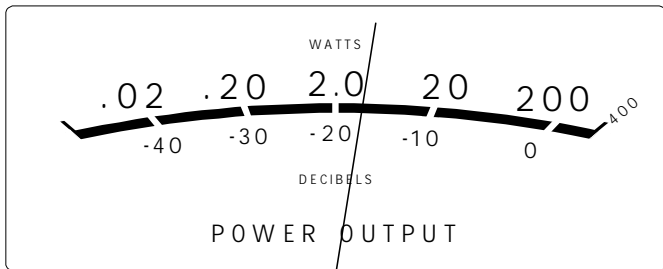
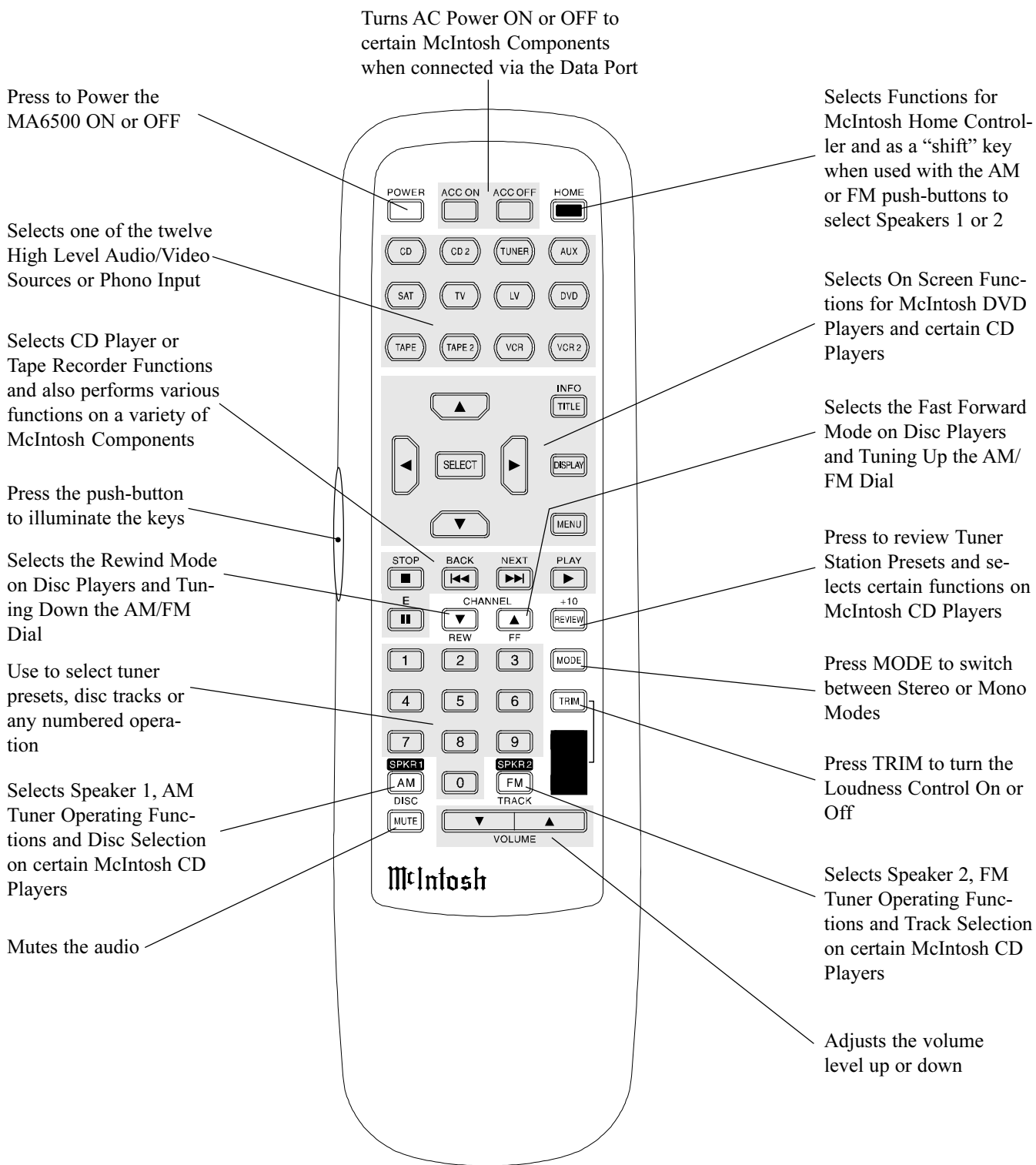


Figure 8

Meter Reading	Actual Power Output (2 ohm load)	Actual Power Output (4 ohm load)	Actual Power Output (8 ohm load)
200	400 Watts	200 Watts	100 Watts
20	40 Watts	20 Watts	10 Watts
2.0	4 Watts	2 Watts	1 Watts
.20	0.4 Watts	0.2 Watts	0.1 Watts
.02	40 Milliwatts	20 Milliwatts	10 Milliwatts



*Note: The Remote Control push-buttons that are blackened out are for use with other McIntosh Control Centers.*

The supplied remote control is capable of directly controlling the functions of contemporary McIntosh Source Components connected to the MA6500. Earlier McIntosh source components and other brand source components can be controlled by the MA6500 with the addition of a McIntosh Remote Control Translator (RCT).

*Note: Your McIntosh Dealer can assist you with the installation and operation of the Remote Control Translator (RCT).*

### Mute

Press the MUTE push-button to mute audio at the MAIN OUTPUT, SPEAKERS 1 & 2. The TAPE OUTPUTS and HEADPHONES output are not affected by the MUTE function. The MUTE LED above the push-button will flash on and off to indicate that Mute is active. Press MUTE a second time to unmute audio.

### Mono

Press the MONO push-button to combine left and right stereo signals to mono at the MAIN OUTPUT, SPEAKERS 1 & 2 and HEADPHONE Output.

### Trim

Press the TRIM push-button to active the Loudness Compensations circuit.

### Input Source Selection

Press any of the twelve input push-buttons to select a program source. When one of the Audio/Video Inputs (SAT, LV, TV, VCR, VCR2 and DVD) are selected by remote control, the MA6500 will automatically switch to the VIDEO Input. If the Front Panel VIDEO Push-button is pressed, the source device connected to the VIDEO INPUT Jacks will be heard. When the optional McIntosh MVS Audio/Video Selector is added, multiple Audio/Video Inputs Sources, such as LV, TV, VCR, VCR2 and DVD (V-Aux), will become available by just pressing the desired program source push-button on the remote control.

### CD/Tape Functions

Use these push-buttons to operate a CD player, CD changer or tape recorder.

### Numbered Push-buttons

Press push-buttons 0 through 9 to access tuner station presets or CD tracks/discs.

### Disc and Track

Use the DISC and TRACK push-buttons when a CD player or changer is being used.

### Tuner Push-buttons

Press the AM or FM push-button to select the desired broadcast band. Press and release the Channel Up▲ or Down▼ push-button to move from station to station. Press and hold a Channel Up▲ or Down▼ push-button to move continuously from station to station. Press REVIEW to start the automatic brief audition of each of the presets stored in the tuner memory. Press REVIEW a second time to stop on a station preset and exit the Review process.

### Volume

Press the Up or Down VOLUME push-button to raise or lower the listening volume level.

*Note: The TAPE OUTPUTS are not affected by volume changes.*

### Amplifier Selection

Press HOME push-button followed by the SPEAKER 1 or 2 push-buttons either separately or together, to control the rear panel SPEAKER 1 & 2 which can feed signals to a power amplifier or other accessory component.

### Acc On

Press ACC ON to turn the power ON to a McIntosh Disc Player.

### Acc Off

Press ACC OFF to turn the power OFF to a McIntosh Disc Player.

### E

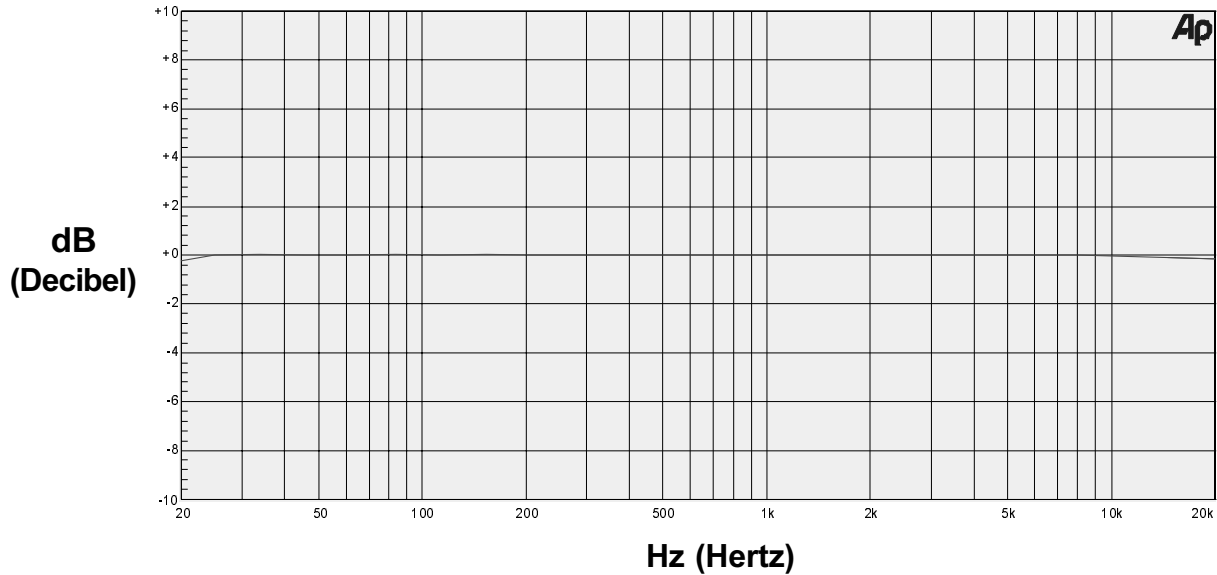
Press E to perform various functions on a variety of McIntosh Components. It will also pause the playing of a disc or tape player.

### Lighting

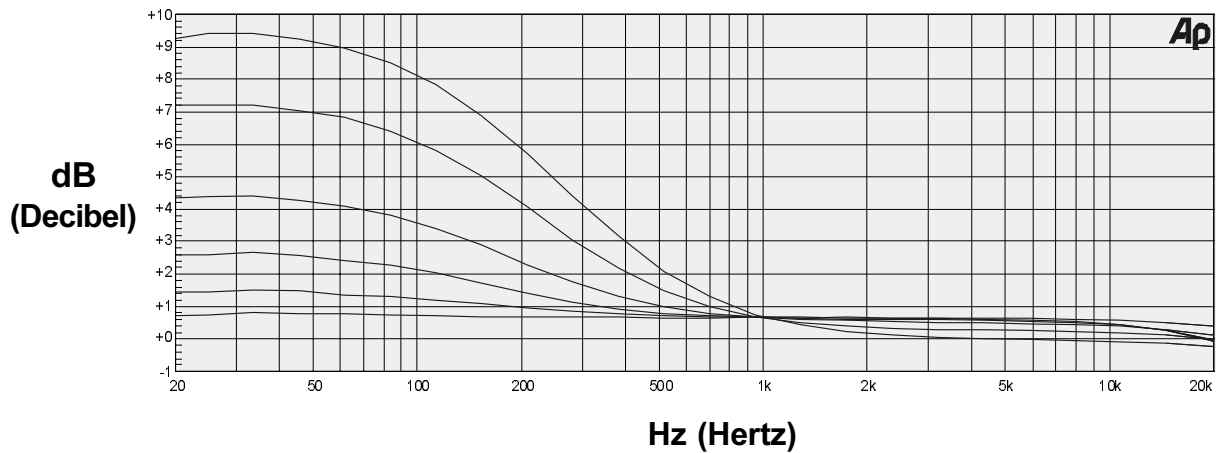
Press and release the LIGHTING push-button to momentarily illuminate the upper half of the remote control push-buttons.

*Note: While the LIGHTING push-button is being depressed, the remote control will be unable to send a remote command. When the LIGHTING push-button is released the push-buttons will continue to stay illuminated for approximately three seconds thus allowing you to send the desired command.*

### Frequency Response



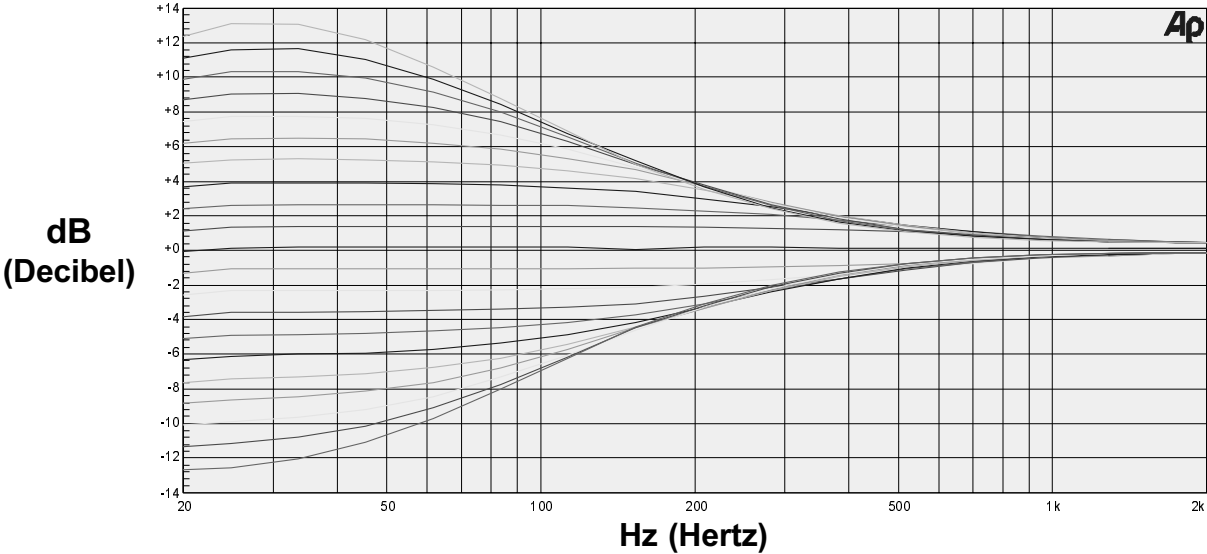
### Loudness Compensation Range



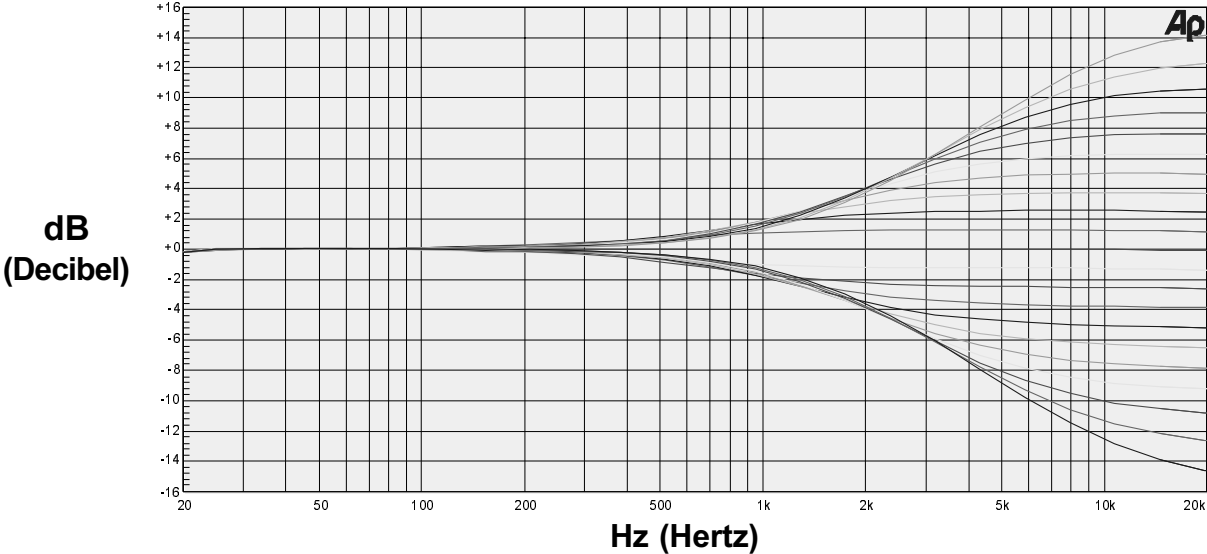
*Note: The Loudness Compensation Range is a combination of the Loudness Circuitry and the Volume Control's rotational position. When the Loudness Circuit is active, the first 50% rotation of the Volume Control achieves maximum loudness compensation, as shown on the upper curve. When the Volume control is rotated beyond the 50% point, the loudness compensation is gradually reduced, as shown by the remaining curves.*



Bass Control Adjustment Range



Treble Control Adjustment Range



### Specifications

#### Power Output

250, 200, 120 watts minimum sine wave continuous average power output per channel, both channels operating, into a load impedance of 2, 4, and 8 ohms respectively.

#### Total Harmonic Distortion

0.005% maximum at any power level from 250 milliwatts to rated power per channel from 20Hz to 20,000Hz, both channels operating.

#### Intermodulation Distortion

0.005% maximum if instantaneous peak output per channel does not exceed twice the rated output with both channels operating for any combination of frequencies from 20Hz to 20,000Hz.

#### Output Load Impedance

2, 4 or 8 ohms

#### Rated Power Band

20Hz to 20,000Hz

#### Dynamic Headroom

2.4dB at 2, 4 or 8 ohms

#### Damping Factor

60 at 2 Ohms  
120 at 4 ohms  
230 at 8 ohms

#### Frequency Response

+0, -0.5dB from 20Hz to 20,000Hz

#### Signal To Noise Ratio (A Weighted)

90dB (84dB IHF) below 10mV input, Phono Input  
100dB (90dB IHF) below rated output, High Level  
110dB below rated output, Power Amplifier

#### Sensitivity

Phono, 2.5mV for 2.5V rated output (0.5mV IHF)  
High Level, 250mV for 2.5V rated output (50mV IHF)  
Power Amplifier Input, 2.5V for rated output

#### Input Impedance

Phono, 47K ohms, 65pF  
High Level, 22K ohms

#### Maximum Input Signal

Phono, 90mV  
High Level, 8V

#### Preamplifier Maximum Voltage Output

Phono, 90mV at tape output  
High Level, 8V at tape output  
Main Out, 8V at preamp output

#### Voltage Gain

High Level to Tape: 0dB  
High Level to Main: 20dB

#### Tone Controls

Bass Control  $\pm$  12dB @20Hz  
Treble Control  $\pm$  12dB @10kHz

#### Power Requirements

100 Volts, 50/60Hz at 4.8 Amps  
110 Volts, 50/60Hz at 4.4 Amps  
120 Volts, 50/60Hz at 4.0 Amps  
220 Volts, 50/60Hz at 2.0 Amps  
230 Volts, 50/60Hz at 2.0 Amps  
240 Volts, 50/60Hz at 2.0 Amps

*NOTE: Refer to the rear panel of the MA6500 for the correct voltage.*

#### Dimensions

17-1/2 inches (44.5 cm) wide by 7 1/16 inches (17.9 cm) high. Depth behind front panel is 18-1/8 inches (46 cm) including connectors. Knob clearance required in front of the mounting panel is 1-1/8 inches (2.9 cm).

#### Weight

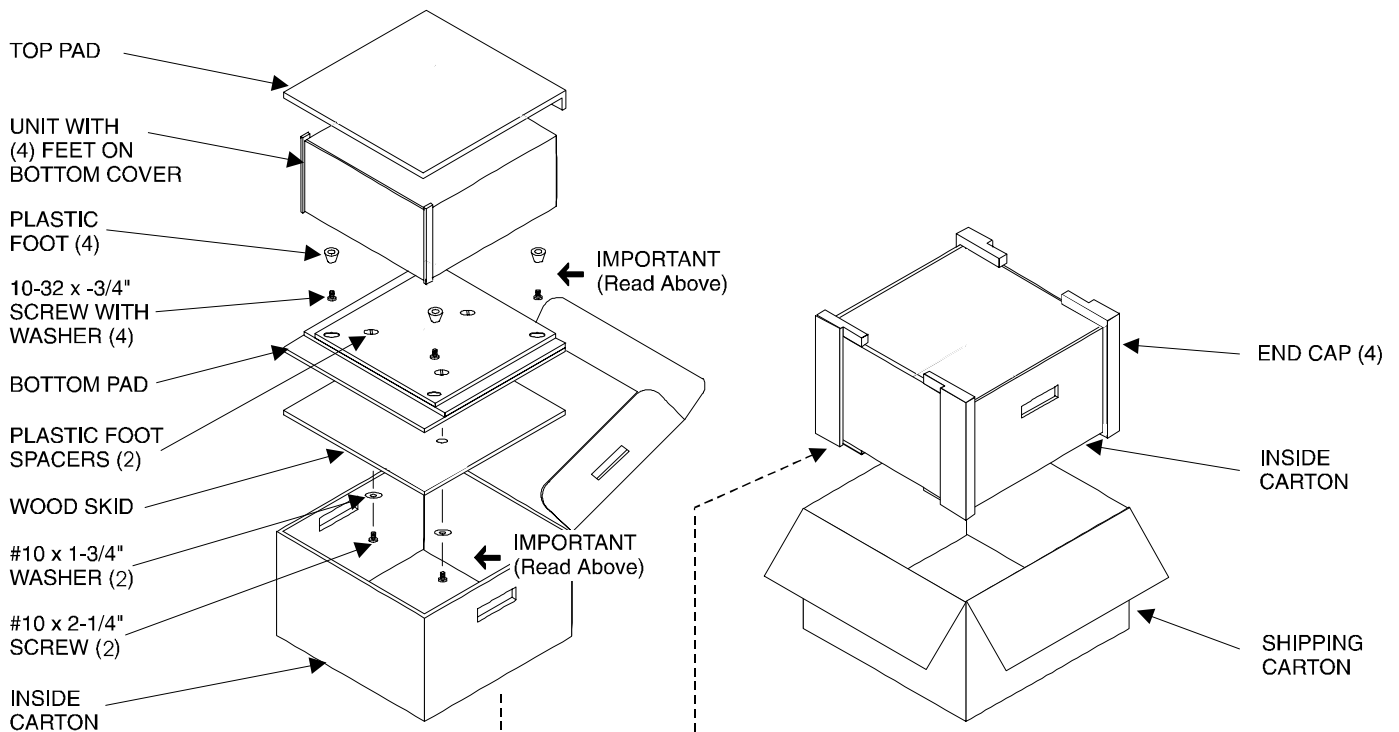
41 pounds (18.6 Kg) net, 60 pounds (27.2 Kg) in shipping carton

## 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 plastic feet are attached to the bottom of the equipment. Two #10 x 2-1/4" screws and washers must be used to fasten the unit securely to the bottom pad and wood skid. This will ensure the proper equipment location on the bottom 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	033888	Shipping carton only
4	033887	End cap (Foam pad)
1	033697	Inside carton only
1	033725	Top Pad
1	034008	Bottom pad
3	017218	Plastic foot (spacer)
1	033699	Wood skid
2	101169	#10 x 2-1/4" Wood screw
2	104033	#10 x 1-3/4" Flat washer
4	017218	Plastic foot
4	100159	#10-32 x 3/4" Machine screw
4	104083	#10 x 7/16" Flat washer



**McIntosh<sup>®</sup>**

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