



McIntosh Laboratory, Inc. 2 Chambers Street Binghamton, New York 13903-2699 Phone: 607-723-3512 [www.mcintoshlabs.com](http://www.mcintoshlabs.com)

# MA7200

INTEGRATED AMPLIFIER  
OWNER'S MANUAL





Important Safety Information is supplied in a separate document "Important Additional Operation Information Guide"

### Thank You from all of us at McIntosh

Your decision to own this McIntosh MA7200 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: 607-724-0549

### 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

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## General Information

The MA7200 has been tested and certified for indoor use only.

1. For additional connection information, refer to the owner's manual(s) for any component(s) connected to the MA7200.
2. Apply AC Power to the MA7200, and other McIntosh Component(s) only after all the system components are connected together. Failure to do so may cause a malfunction of system operations as the Microprocessor's Circuitry inside the components is active when AC Power is applied.
3. The MA7200 includes an Auto Off Power Save Feature and the default setting is enabled. *For additional information including how to disable it, refer to page 20.*
4. When Power Amplifier Protection Circuitry of the MA7200 has activated, the Front Panel Power Guard LEDs are illuminated continuously and the sound will be muted.
5. When the Power Transformer has overheated due to improper ventilation and/or high ambient operating temperature, AC Power is removed from the MA7200. Normal operation will resume when the operating temperature is in a safe range again.
6. For the best performance and safety, it is important to always match the impedance of the Loudspeaker to the Power Amplifier connections. *Refer to pages 9 thru 11.*

*Note: The impedance of a Loudspeaker varies as the Loudspeaker reproduces different frequencies. As a result the nominal impedance rating of the Loudspeaker (usually measured at a midrange frequency) might not always agree with the impedance of the Loudspeaker at low frequencies where the greatest amount of power is required. Contact the Loudspeaker Manufacturer for additional information about the actual impedance of the Loudspeaker before connecting it to the McIntosh MA7200.*

7. The MA7200 Remote Control is capable of operating other components. For additional information go to [www.mcintoshlabs.com](http://www.mcintoshlabs.com).
8. The IR Input with a 1/8 inch mini phone jack is configured for non-McIntosh IR sensors such as a Xantech Model DL85K Kit. Use a Connection Block such as a Xantech Model ZC21 when two or more IR sensors need to be connected to the MA7200. The signal from a connected External IR Sensor will have priority over the signal from the Front Panel IR Sensor.
9. When discarding the unit, comply with local rules and regulations. Batteries should never be thrown away or incinerated, but disposed of in accordance with the local regulations concerning battery disposal.
10. For additional information on the MA7200 and other McIntosh Products please visit the McIntosh Web Site at [www.mcintoshlabs.com](http://www.mcintoshlabs.com).



## Connector and Cable Information

### XLR Connectors

Below is the Pin configuration for the XLR Balanced Input Connectors on the MA7200. *Refer to the diagram for connection:*

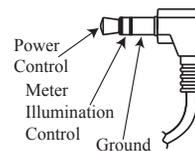
- PIN 1: Shield/Ground
- PIN 2: + Output
- PIN 3: - Output



### Power Control and Trigger Connectors

The Power Control Trigger Output Jacks send and Passthru Input Jack receives Power On/Off Signals (+12 volt/0 volt) when connected to other McIntosh Components. An additional connection is for controlling the illumination of the Power Output Meters on McIntosh Power Amplifiers. A 3.5mm stereo mini phone plug is used for connection to the Power Control, Trigger and Passthru Outputs.

#### Main, Trig 1&2 and Pass-Thru

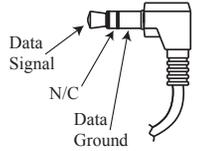


### Data Port Connectors

The Data Out Ports send Remote Control Signals to Source Components. A 3.5mm stereo mini phone plug is used for connection.

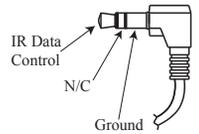
### IR IN Port Connectors

The IR IN Port also uses a 3.5mm stereo mini phone plug, and allows the connection of other brand IR Receivers to the MA7200.



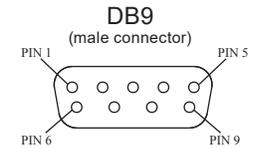
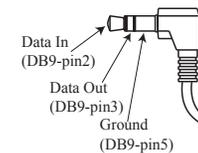
### RS232-C Data Port Cable

The RS232 Data Cable is a 3.5mm stereo mini phone plug to a sub miniature DB 9 connector:



### Output Terminal Connector

When cables with spade lugs are used for Loudspeaker Connection, the spade lugs need an opening of at least 3/10 inch (7.6mm)

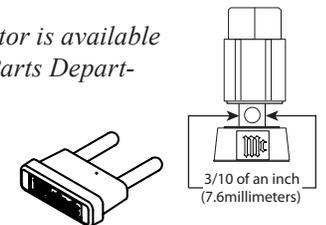


### McIntosh Plug-In Jumper Connector

The MA7200 utilizes two phono style Plug-In Jumpers to connect the Preamplifier Output to the Power Amplifier Input.

*Note: The Jumper Connector is available from the McIntosh Parts Department:*

**McIntosh Jumper Connector Part No. 117781**



Now you can take advantage of traditional McIntosh standards of excellence in the MA7200 Integrated Amplifier. The Power Amplifier section of the MA7200, with a power output of 200 watts per channel, will drive a pair of quality Loudspeakers to a high level of performance.

The flexible Preamplifier section provides connections for various input sources, and may also be used to drive an external Power Amplifier(s).

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## Performance Features

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### • Power Output with Patented Autoformer

The MA7200 consists of a 200 watts per channel Power Amplifier with less than 0.005% distortion. The McIntosh designed and manufactured Autoformer allows connection of 2, 4, or 8 ohm Loudspeakers. The Power Amplifier uses ThermalTrak<sup>1</sup> Output Transistors for lower distortion and cool operation.

### • Power Guard

The patented McIntosh Power Guard circuit prevents amplifier clipping, and protects your valuable Loudspeakers.

### • Sentry Monitor and Thermal Protection

McIntosh Sentry Monitor power output stage protection circuits ensure the MA7200 will have a long and trouble free operating life. Built-in Thermal Protection Circuits guard against overheating.

### • Electronic Switching and Balanced Connections

The Preamplifier uses Logic Circuits Controlled Electromagnetic Switches on all inputs and operating functions for reliable, noiseless, distortion-free switching. There is a Balanced Input for connection of a source component.

### • Digital Audio Inputs

The Digital Inputs decode PCM and DSD Signals from external sources. Coaxial and Optical Inputs process Digital Signals up to 192kHz with 24-Bit resolution. The Digital MCT Input Circuitry directly decodes SACD/CD signals from an external Transport component. The USB Input for streaming audio processes Digital Signals up to 384kHz with 32-Bit resolution, decodes up to DSD512 Digital Signals and DXD 24-Bit with a sampling rate up to 384kHz.

### • Moving Coil and Moving Magnet Phono Inputs

The MA7200 has two precision Phono Preamplifier Circuits for Moving Coil, and Moving Magnet Phono Cartridges. Both circuits use the latest designs to provide the lowest possible noise, distortion, and flat frequency response. The MC Phono Cartridge Input has selectable loading.

### • HDMI TV Sound

The HDMI ARC (Audio Return Channel) allows you to use your entire audio system to play the sound from your TV, including the over-the-air broadcasts, HDMI inputs, and streaming services.

### • Tone Controls

The Bass and Treble Trim Controls provide up to 12dB of boost or cut. The MA7200 remembers the Bass and Treble Setting for each input.

### • Multifunction Display and Power Meters

The Front Panel Display indicates source selection, volume levels, and setup functions. The Illuminated Power Output Meters are peak responding and indicate the power output of the amplifier.

### • Power Control Output and Trigger Assignment

A Power Control connection for convenient Turn-On of McIntosh Power Amplifiers, Source Components, and Accessories is included. The Power Control Trigger Outputs may be assigned to activate when a given Input/Output is selected.

### • PassThru Mode

The Automatic PassThru Mode allows the MA7200 to become part of a Multichannel Sound System for DVD-Audio, SACD, and Home Theater Movies.

### • Remote Control

The Data Ports together with the supplied Remote Control provide control of McIntosh Source Components connected to the MA7200.

### • Special Power Supply

The large Power Transformer, multiple filter capacitors with 120 Joules of Energy Storage, and regulated Power Supply ensure stable, noise-free operation even though the power line varies.

### • McIntosh Custom Binding Posts

McIntosh Patented gold plated output terminals deliver high current output. They accept large diameter wire, and spade lugs. Banana plugs may also be used only in the United States and Canada.

### • Glass Front Panel and Super Mirror Chassis Finish

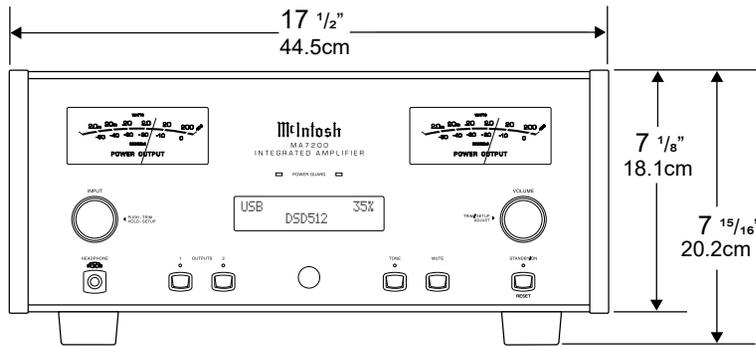
The famous McIntosh Illuminated Glass Front Panel uses long life Light Emitting Diodes (LEDs) and the Stainless Steel Chassis with Super Mirror Finish ensures the pristine beauty of the MA7200 will be retained for many years.

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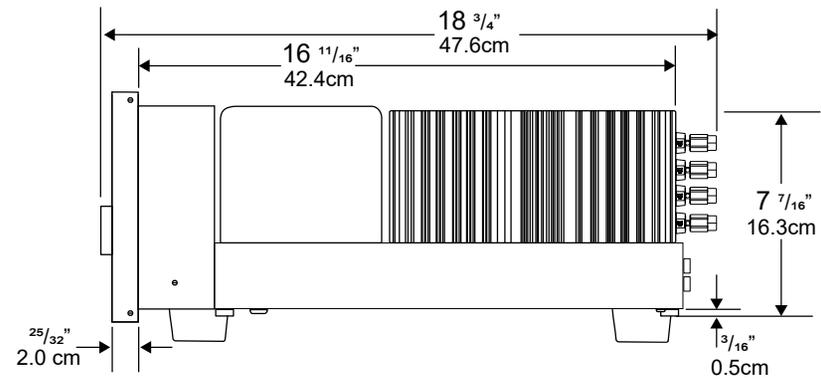
<sup>1</sup> ThermalTrak™ and ON Semiconductor are trademarks of Semiconductor Components Industries, LLC

The following dimensions can assist in determining the best location for your MA7200. There is additional information on the next page pertaining to installing the MA7200 into cabinets.

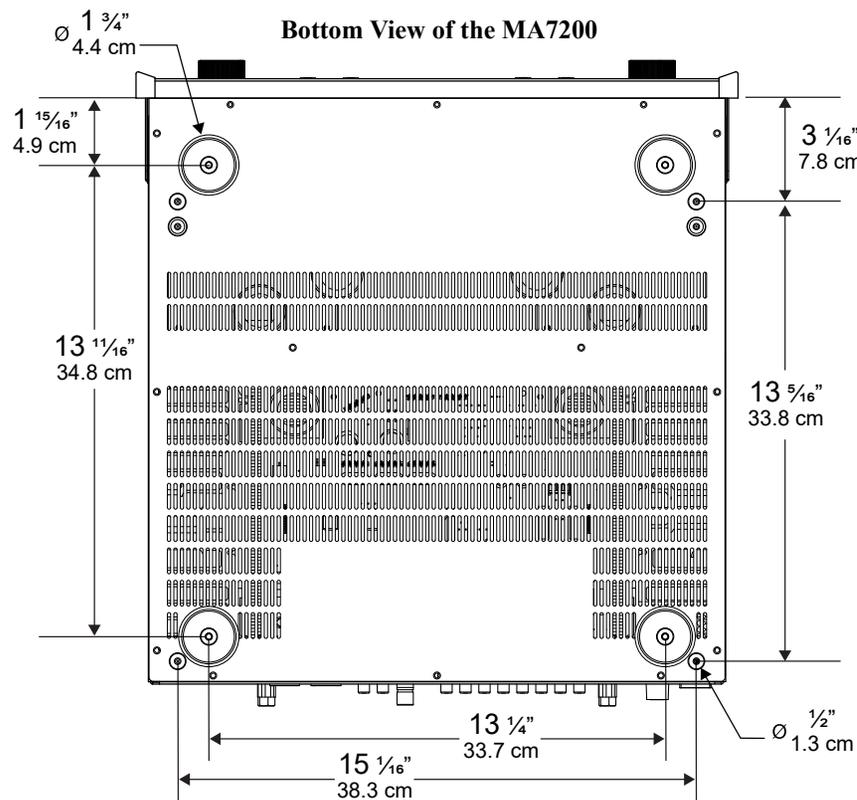
**Front View of the MA7200**



**Side View of the MA7200**



**Bottom View of the MA7200**

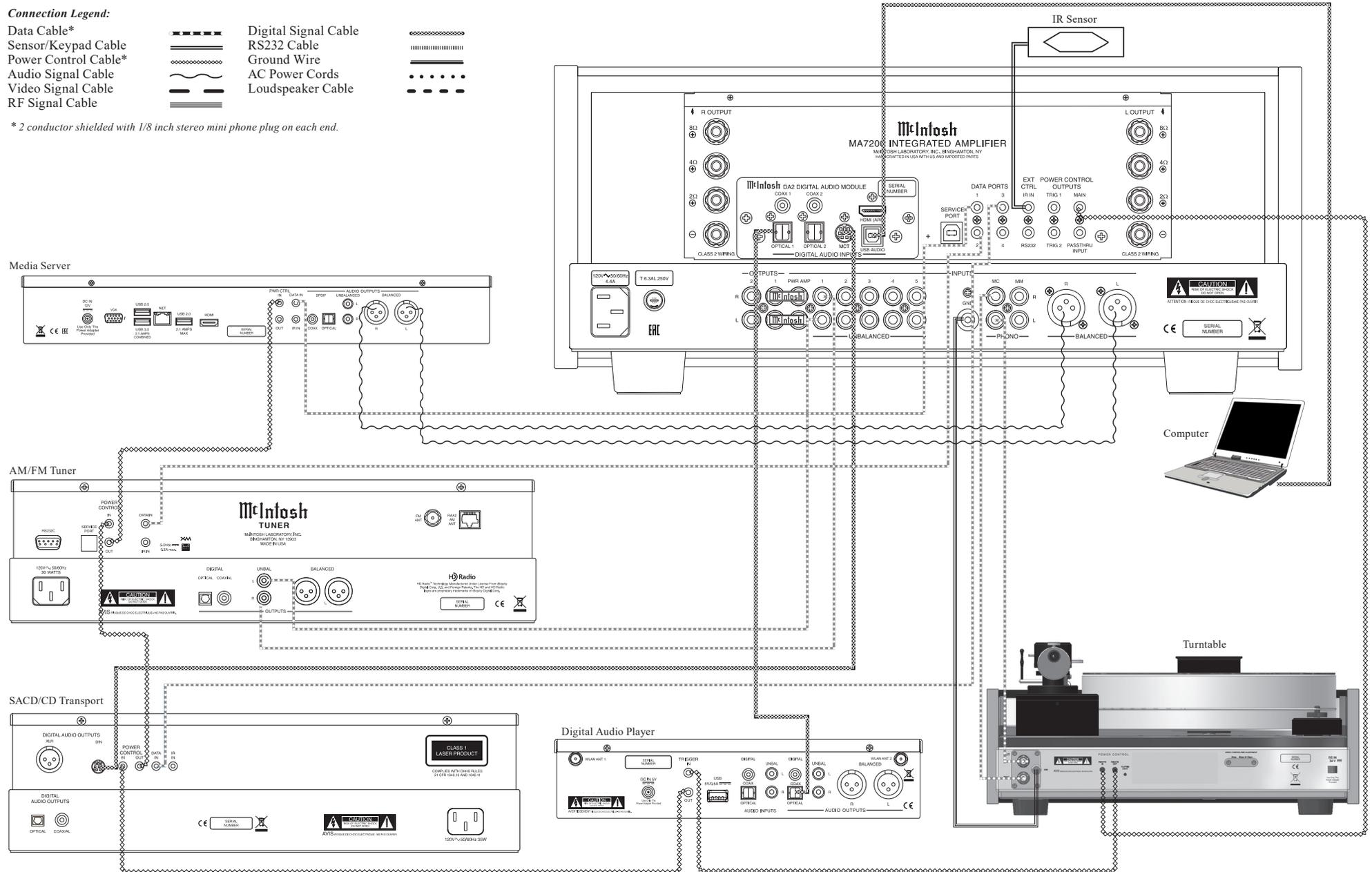


## Input and Control Connections

### Connection Legend:

Data Cable*		Digital Signal Cable	
Sensor/Keypad Cable		RS232 Cable	
Power Control Cable*		Ground Wire	
Audio Signal Cable		AC Power Cords	
Video Signal Cable		Loudspeaker Cable	
RF Signal Cable			

\* 2 conductor shielded with 1/8 inch stereo mini phone plug on each end.



The MA7200 has the ability to automatically switch power On/Off to McIntosh Source Components via the Power Control (Trigger) connections. The Data Port Connections allow for the remote operation of basic functions using the MA7200 Remote Control. With an external sensor connected to the MA7200, remote control operation of the system is possible from another room, and/or when the MA7200 is located in a cabinet with the doors closed.

The connection instructions are an example of a typical audio system. Your system may vary from this, however, the actual components would be connected in a similar manner. *For additional information refer to “Connector and Cable Information” on page 3.*

### Power Control Connections

1. Connect a Control Cable from the MA7200 POWER CONTROL MAIN Jack to the Power Control In on the Turntable.
2. Connect a Control Cable from the McIntosh Turntable Power Control Out Jack to the Digital Audio Player Trigger In Jack.
3. Connect a Control Cable from the Digital Audio Player Trigger Out Jack to the SACD/CD Transport Power Control In Jack.
4. Connect a Control Cable from the SACD/CD Transport Power Control Out Jack to the AM/FM Tuner Power Control In Jack.
5. Connect a Control Cable from the AM/FM Tuner Power Control Out Jack to the Media Server PWR CTRL (Power Control) In Jack.
6. Optionally connect a Control Cable from the MA7200 POWER CONTROL TRIG (Trigger) 2 Jack to the Power Amplifier (Secondary Room) Power Control In Jack.
7. Connect any additional McIntosh Components in a similar manner as outlined in steps 1 thru 4.

### Data Control Connections

8. Connect a Control Cable from the MA7200 DATA PORT Jack 3 to the SACD/CD Player Data In Jack.
9. Connect a Control Cable from the MA7200 DATA PORT Jack 2 to the AM/FM Tuner Data In Jack.
10. Connect a Control Cable from the MA7200 Jack 1 to the Media Server Data In Jack.
11. Connect any additional McIntosh Components in a similar manner as outlined in steps 8 thru 10.

### Sensor Connections

12. Optionally, connect the cable with stereo mini plug coming from the compatible External Sensor to the EXT CTRL (External Control) IR IN Jack on the MA7200. *Refer to page 3 “General Information, note 8” for additional information.*

### Audio Connections

13. Connect Balanced Cables from the MA7200 BALANCED INPUT L & R Connectors to the Media Server Audio Output Balanced Connectors.
14. Connect Audio Cables from the MA7200 Number 1 UNBALANCED Jacks to the AM/FM Tuner UNBAL Output Jacks.
15. Connect the Audio Cables coming from the Turntable to the MA7200 MC (for a Moving Coil Cartridge), or MM (for a Moving Magnet Cartridge) INPUT Jacks.
16. Optionally, connect Audio Cables from the MA7200 OUTPUT 2 Jacks to the Power Amplifier (Secondary) Input Jacks.
17. Connect any additional Components in a similar manner as outlined in steps 13 thru 16.

### Optional Digital Audio Connections

18. Connect an Optical Cable from the MA7200 OPTICAL 1 Digital Audio Input Connector to the Digital Audio Out Optical Connector on the Digital Audio Player.
19. Using the “MCT Cable-Twisted Pair” cable (supplied with a MCT Transport), connect the cable from the MA7200 MCT DIGITAL AUDIO INPUT Connector to the SACD/CD Transport MCT (DIN) Output Connector.
20. Connect any additional Components in a similar manner as outlined in steps 18 thru 19.

### Optional USB Connection

21. Connect a USB cable with (Type-A to Type-B) connectors from the MA7200 USB D/A Digital Audio Input to an available USB connector.

### Ground Connections

22. Connect the Ground Cable coming from the Turntable to the MA7200 GND Binding Post.

*Notes: 1. If the MA7200 is part of a Home Theater System, proceed to “PassThru” connection on page 8.*  
*2. When the MA7200 will used together with a separate Power Amplifier for Bi-Amplification of a Loudspeaker System, proceed to page 9.*



## Connecting for Bi-Amplification

The MA7200 Power Amplifier, together with an additional separate Power Amplifier, may be used to Bi-Amplify a Loudspeaker System. In the illustration on this page the Power Amplifier of the MA7200 is connected to the Midrange/High Frequency Section of the Loudspeaker. The additional separate Power Amplifier is connected to the Low Frequency Section of the Loudspeaker System.

**Warning:** *The Loudspeaker System used for Bi-Amplification must have the jumpers removed from between the MID/HIGH and LOW Frequency Sections of the Loudspeaker System. Failure to remove them could result in damage to the MA7200 and/or the separate Power Amplifier.*

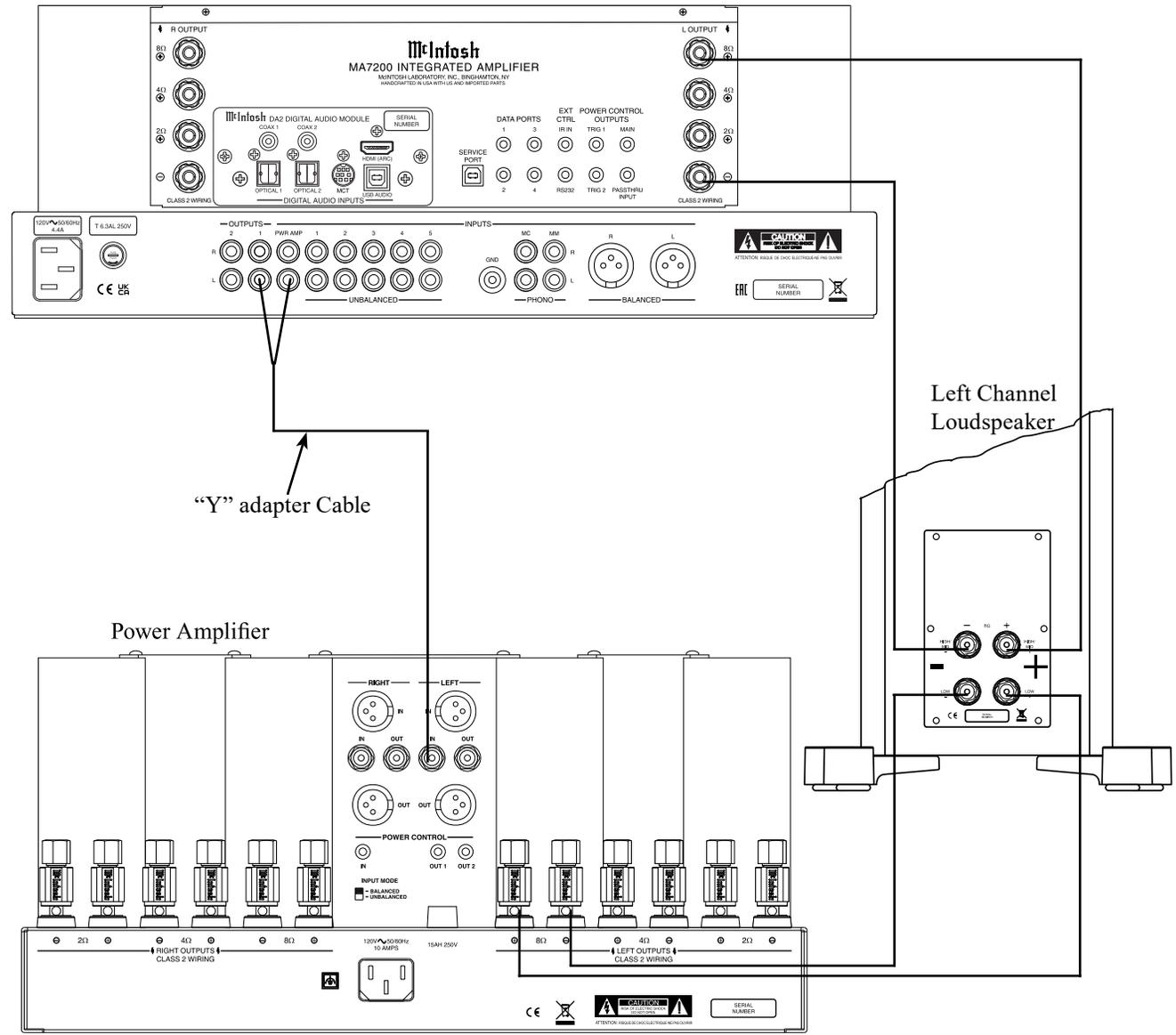
### MA7200 Connections:

1. Remove the “McIntosh Jumpers” from between the OUTPUT 1 Jacks and the PWR AMP In Jacks located on the Rear Panel of the MA7200.

*Note: Place the “McIntosh Jumper” in a safe place for possible future use.*

2. Using a pair of shielded RCA Type Audio “Y” Adapters, connect the OUTPUT 1 Jacks to the PWR AMP In Jacks for both Left and Right Channels.
3. Connect the remaining unconnected part of the “Y” Adapters to the separate Power Amplifier.
4. Referring to the Loudspeaker Connection Instructions on page 10, and in the Owner’s Manual supplied with the Power Amplifier and Loudspeaker, connect the MA7200 Output Terminals to the Loudspeaker MID/HIGH Input Terminals.

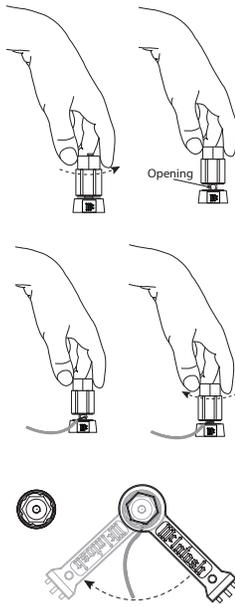
*Note: The Loudspeaker Connection illustrations on this page are for the Left Channel. Connect the Right Channel Loudspeaker in the same manner.*



## Output Terminals

When connecting the Loudspeaker Hookup Cables to the MA7200 Amplifier Output Terminals, please follow the steps below:

1. Rotate the top of the Output Terminal Post counter-clockwise until an opening appears.
2. Insert the Loudspeaker hookup cable into the Output Terminal Post opening, or the cable spade lug around the center post of the Output Terminal.
3. Rotate the top of the Output Terminal Post clockwise until it is finger tight.
4. Place the supplied McIntosh Wrench over the top of the Output Terminal and rotate it one quarter of a turn (90°) to secure the Loudspeaker Cable Connection. **Do not over tighten.**



## How to Connect Loudspeakers

**Caution:** Do not connect the AC Power Cord to the MA7200 Rear Panel until after the Loudspeaker Connections are made. Failure to observe this could result in Electric Shock.

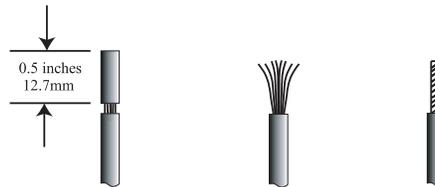
The connection instructions below, together with the MA7200 Connection Diagram located on page 10, is an example of a typical audio system. Your system may vary from this, however, the actual components would be connected in a similar manner. For additional information refer to "Connector and Cable Information" on page 3.

The McIntosh MA7200 Power Amplifier Circuitry is designed for Loudspeakers with an impedance of 2 ohms, 4 ohms, or 8 ohms. Connect a single Loudspeaker only to the Right and Left Output Terminals.

When connecting Loudspeakers to the MA7200 it is very important to use cables of adequate size so there is little to no power loss in the cables. The size is specified in Gauge Numbers, or AWG (American Wire Gauge). The smaller the Gauge number the larger the wire size:

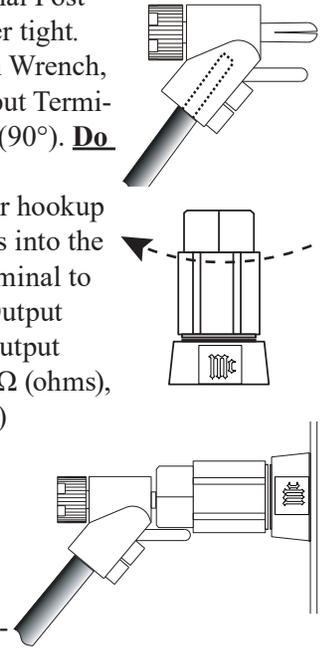
Loudspeaker Cable Distance vs Wire Gauge Guide			
Loudspeaker Impedance	25 feet (7.62 meters) or less	50 feet (15.24 meters) or less	100 feet (30.48 meters) or less
2 Ohms	12AWG	10AWG	8AWG
4 Ohms	14AWG	12AWG	10AWG
8 Ohms	16AWG	14AWG	12AWG

1. Prepare the Loudspeaker Hookup Cable for attachment to the MA7200 Power Amplifier:
  - Bare wire cable ends:** Carefully remove sufficient insulation from the cable ends. If the cable is stranded, carefully twist the strands together as tightly as possible.
  - Notes: 1. If desired, the twisted ends can be tinned with solder to keep the strands together.*
  - 2. The prepared bare wire cable ends may be inserted into spade lug connectors.*
  - 3. Banana plugs are for use in the United States and Canada only.*



**Banana Plugs are for use in the United States and Canada only:**

2. Attach the previously prepared bare wire cable ends into the banana plugs and secure the connections.
3. Rotate the Output Terminal Post clockwise until it is finger tight. Then using the McIntosh Wrench, rotate the top of the Output Terminal one quarter of a turn (90°). **Do not over tighten.**
4. Connect the Loudspeaker hookup cables with banana plugs into the hole at the top of the terminal to the MA7200 Negative Output Terminal and Positive Output Terminal identified as 2Ω (ohms), 4Ω (ohms), or 8Ω (ohms) connection to match the impedance of the Loudspeaker, being careful to observe the correct polarities. If the Loudspeaker's impedance is in-between the available connections, use the nearest lower impedance connection.



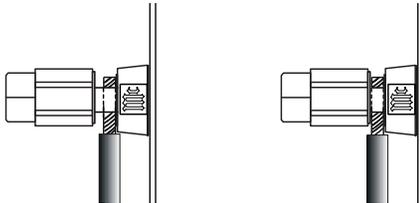
**WARNING:** Loudspeaker terminals are hazardous live and present a risk of electric shock. For additional instruction on making Loudspeaker Connections contact your McIntosh Dealer or McIntosh Technical Support.

5. Connect the MA7200 power cord to an active AC outlet.

**Spade Lug or Wire Connections:**

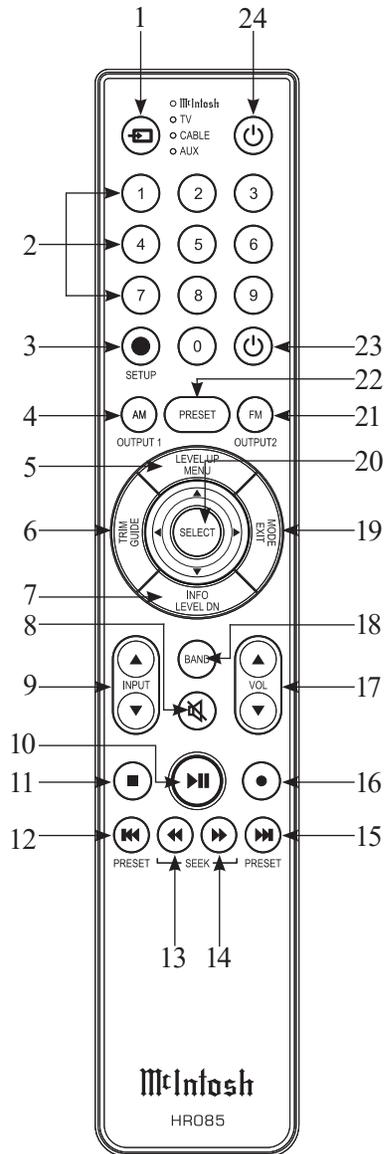
6. Connect the Loudspeaker hookup cables to the MA7200 Negative Output Terminal and Positive Output Terminal identified as 2Ω (ohms), 4Ω (ohms), or 8Ω (ohms) connection to match the impedance of the Loudspeaker, being careful to observe the correct polarities. Insert the spade lug connector, or prepared section of the cable end into the terminal side access hole, and tighten the terminal cap until the cable is firmly clamped into the terminals so the lugs or wire cannot slip out. If the Loudspeaker's impedance 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.***

7. Connect the MA7200 power cord to an active AC outlet.



Note: The included McIntosh HR085 Remote Control has buttons used to control multiple devices. While operating the MA7200 with the Remote, nothing will happen when pressing buttons that activate features not present on the MA7200. Refer to HR085 Owner's Manual on [www.mcintoshlabs.com](http://www.mcintoshlabs.com).

**1. Switch Device:** Select different devices for Remote operation. Selected device is indicated by the LED light when buttons are pressed.

**2. Numbers:** You can select tuner presets and manually enter disc tracks and radio stations – among other numerical functions – using these buttons.

**3. Setup:** The Setup Button gives you access to the additional functions for the buttons represented in blue text. It's like using the “Shift” key on a keyboard to access special characters above the number keys. *(Note: Cannot be used to enter Setup Mode.)*

**4. AM Tuner/Output 1:** Access AM Tuner or press Setup followed by this button to toggle Output 1.

**5. Level Up/Menu:** Adjusts Trim Functions Settings Menu on compatible devices.

**6. Trim/Guide:** Enters Trim Functions Menu opens Guide on compatible devices.

**7. Info/Level Down:** Adjusts Trim Functions Settings accesses Info on compatible devices.

**8. Mute:** Mutes audio playback.

**9. Input:** Changes and selects different inputs.

**10. Play/Pause:** Pressing this button will halt playback of active media, and it will resume from where it left off if you press the button again.

**11. Stop:** Cancels media playback and resets progress through it.

**12. Previous/Previous Preset:** You can go back to your previous media selection by pressing this button. Also allows you to navigate to a previous tuner preset.

**13. Fast Reverse/Seek Down:** Navigate backwards through the current active media using this button. This is also used to adjust the tuner downwards.

**14. Fast Forward/Seek Up:** Navigate forward through the current active media using this button. This is also used to adjust the tuner upwards.

**15. Next/Next Preset:** You can go forward to your next media selection by pressing this button. Also allows you to navigate to a later tuner preset.

**16. Record:** On devices with a record function, this will begin recording the actively playing media.

**17. Volume:** Adjust the Volume with these buttons.

**18. Band:** You will have the option to change the band on your connected tuner or select certain options on a variety of McIntosh models.

**19. Mode/Exit:** This will exit the Trim Functions Menu. It will also display information or certain options.

**20. Select:** Where applicable, you can press this button to select any highlighted option.

**21. FM Tuner/Output 2:** Access FM Tuner or press Setup followed by this button to toggle Output 2.

**22. Preset:** Press this button followed by a number (0-9) to immediately select that stored preset.

**23. Power Off:** Whichever device you have selected on the Remote Control will turn Off when you press this button.

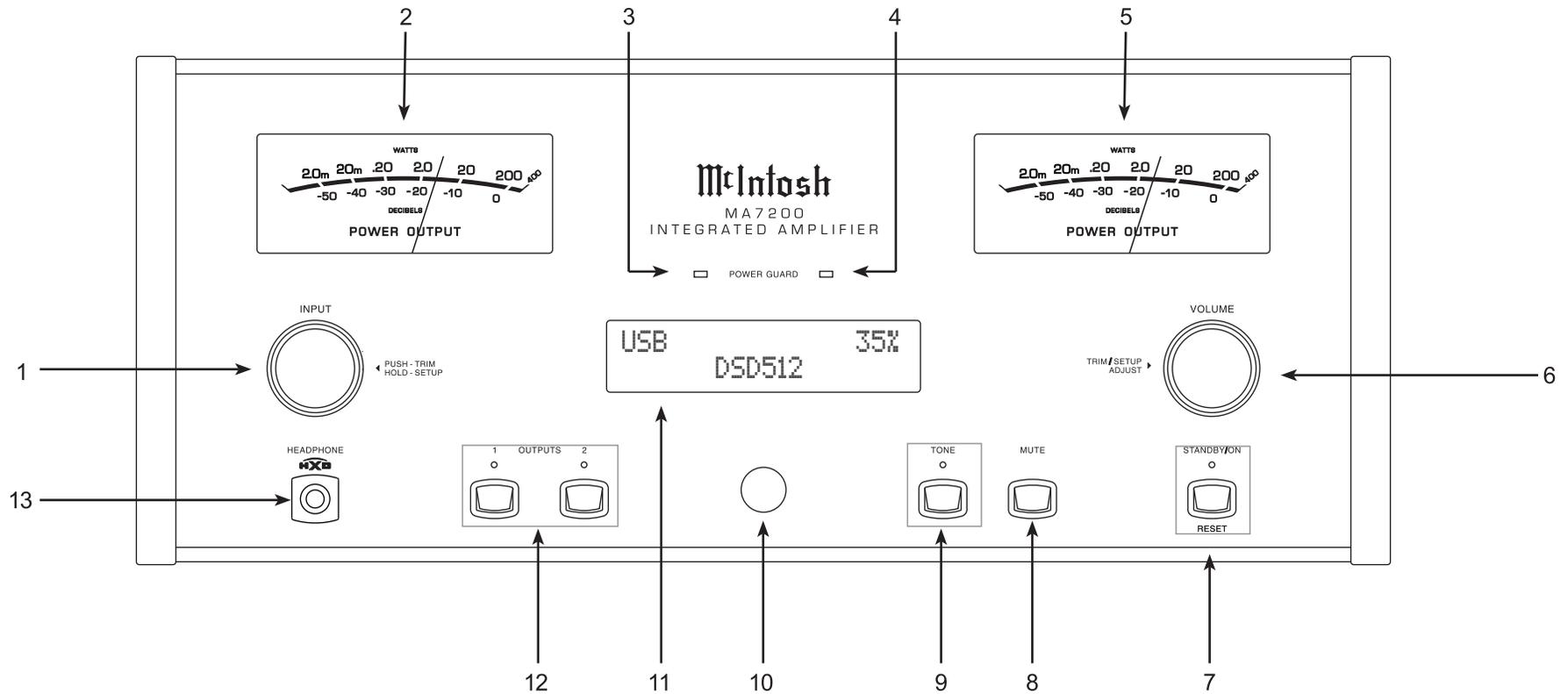
**24. Power On:** Whichever device you have selected on the Remote Control will turn On when you press this button.

### Additional Discrete Commands

Additional discrete commands for external control systems are available:

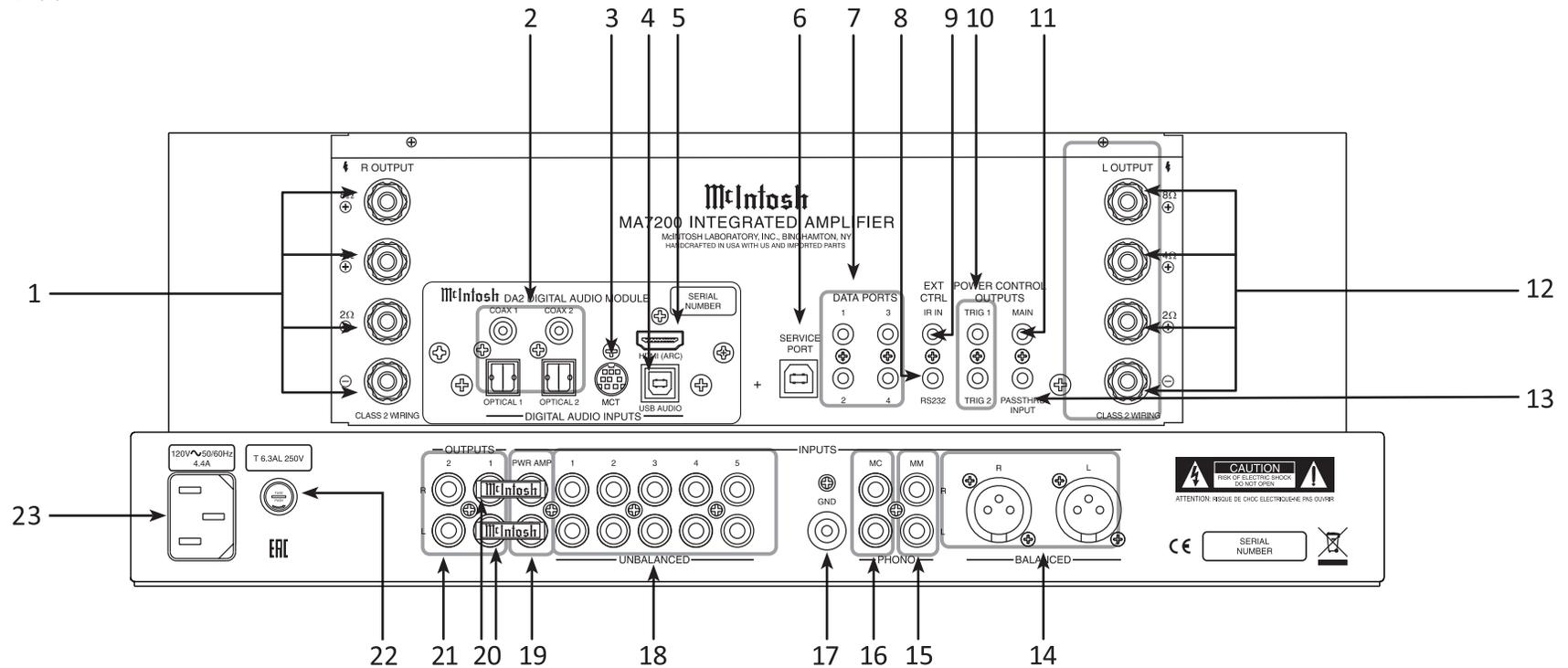
- BALANCED
- UNBAL 1, 2, 3, 4, 5
- PHONO MM,MC
- COAX 1,2
- OPT 1,2
- USB
- MCT
- HDMI (ARC)
- Power (Cycle)

These additional commands can be accessed using an optional McIntosh HR093 Service Remote Control. Contact McIntosh Technical Assistance or your dealer for more information.



**Front Panel**

- |  |  |   |
|--|--|---|
| <p>1. <b>INPUT</b> Control used to select a source for listening and recording. The control is also used to enter the TRIM or SETUP Modes and select the various functions</p> <p>2. Meter indicates the Left Channel Output of the amplifier</p> <p>3. LED indicates when the Left Channel Amplifier POWER GUARD circuit activates</p> <p>4. LED indicates when the Right Channel Amplifier POWER GUARD circuit activates</p> <p>5. Meter indicates the Right Channel Output of the amplifier</p> | <p>6. <b>VOLUME</b> Control allows adjustment of the listening level for both channels. Also used to change the various TRIM and SETUP Functions</p> <p>7. <b>STANDBY/ON</b> Push-button with indicator switches the MA7200 ON or OFF (Standby) and resets the microprocessors</p> <p>8. <b>MUTE</b> Push-button mutes the audio from the Loudspeakers and Headphones</p> <p>9. <b>TONE</b> Push-button with indicator, when deactivated the audio signal bypasses the Tone Settings</p> | <p>10. IR Sensor receives commands from a Remote Control</p> <p>11. <b>INFORMATION DISPLAY</b> indicates the Sources, Volume, other Audio Settings, Operational Functions, and Setup Mode Settings</p> <p>12. <b>OUTPUTS 1 and 2</b> Push-buttons with indicators, switch Preamplifier Output (Loudspeakers) 1 and 2 On or Off</p> <p>13. Connection for low impedance dynamic headphones for private listening</p> |
|--|--|---|



## Rear Panel

1. Right **OUTPUT** connections for a 2, 4, or 8 ohm Loudspeaker
2. **DIGITAL AUDIO INPUTS** for components with Digital Optical and Coaxial Outputs sending digital audio signals
3. **MCT DIGITAL AUDIO INPUT** for streaming high bandwidth digital signals from SACD/CD Transport Components
4. **USB DIGITAL AUDIO INPUT** for connection to a computer
5. **HDMI (ARC)** Input is to connect an HDMI cord in order to share control and connectivity with a compatible ARC TV
6. **SERVICE PORT** for service use only
7. **DATA PORTS** send signals to Source Components to allow control with the MA7200 Remote Control
8. **RS232** connector for connection to a computer or other control device
9. **IR IN** Input for signals from a compatible IR Room Sensor
10. **POWER CONTROL OUTPUTS TRIG**ger 1 and 2 send turn On/Off signals to assignable components
11. **POWER CONTROL MAIN OUTPUT** sends turn On/Off signals to a McIntosh Component when the MA7200 is switched On/Off
12. Left **OUTPUT** connections for a 2, 4, or 8 ohm Loudspeaker
13. **POWER CONTROL PASSTHRU INPUT** receives turn On/Off signals from an Audio/Video Control Center
14. **BALANCED INPUTS** accept high level program source signals
15. **PHONO MM** accepts signals from a Moving Magnet Phono Cartridge
16. **PHONO MC** accepts the low level signals from a Moving Coil Phono Cartridge
17. **GND** terminal accepts a ground wire from a turntable
18. **UNBALANCED INPUTS** 1 thru 5 accept high level program source signals
19. **PWR AMP INPUTS** accept signals from the internal Preamplifier or a separate external Preamplifier
20. Jumper Plugs connect the Preamplifier OUTPUT 1 Jacks to the PWR AMP INPUTS Jacks and are required for normal operation
21. **OUTPUTS 2** send signals to Power Amplifiers and are switched On/Off with the Front Panel Output 2 Push-Button or Remote Control Push-Button
22. Main Fuse holder, refer to information on the back panel of your MA7200 to determine the correct fuse size and rating
23. Connect the MA7200 power cord to a live AC outlet. Refer to information on the back panel of your MA7200 to determine the correct voltage for your unit

## How to Operate the Setup Mode

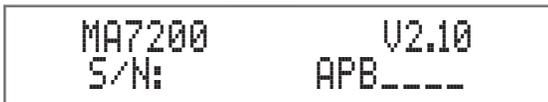
Your McIntosh MA7200 has been factory configured to allow immediate enjoyment of superb audio without the need for further adjustments. If you wish to make changes to the factory default settings, a Setup Feature is provided to customize the operating settings using the Front Panel Information Display. Refer to the MA7200 Front Panel Illustration on page 13 while performing the following steps.

Note: If the MA7200 is currently On, proceed to step 2.

1. Press the STANDBY/ON Push-button on the Front Panel, or press the  (Power ON) Push-button on the Remote Control to switch On the MA7200. The MA7200 will go through a brief startup initialization with the Front Panel Information Display first indicating "MA7200," followed by the last used source, and volume setting. This is followed by the volume setting indication starting at zero and then increasing to the last used volume setting.



2. Press and hold in the INPUT Control until the Front Panel Information Display indicates "MA7200 V2.10, (or higher Main Firmware version) - S/N: XXX\_\_\_\_" (Serial Number.)



3. Rotate the INPUT Control to select the Setup Mode Menu item, "SETUP: Inputs, (Hold INPUT)."



Continue to rotate the INPUT CONTROL to view the other SETUP Mode Options.

4. To exit from the SETUP Mode, press and hold in the INPUT Control and the Front Panel Display will indicate its normal display.

## Default Settings

The Default Settings Chart below indicates the Function Name, Default Setting, and the Page Number for additional information.

Default Settings		
Function Name	Setting	Page No.
MA7200	V_._._	17
DA2	V_._._	17
INPUTS	On / Rename	17-18
OUTPUTS (1 & 2)	Switched	19
HDMI CEC PWR/VOL	ON	19
Lip Sync Mode	Auto	19
HDMI/OPTI 1 or 2 Gain	0dB	19
TRIGGER 1	Output 1	20
TRIGGER 2	Output 2	20
DATA PORTS (1 thru 4)	All Data	20
PASSTHRU	OFF	21
RS232 (Rate)	115200 Baud	21
Remote Control Codes	Normal	21
IR Sensor	Enabled	22
Power Mode	Enabled	22

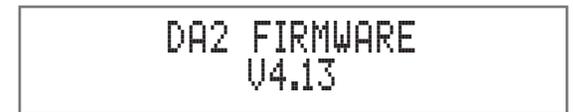
## Firmware Version

The MA7200 functionality is controlled by internal software that is known as Firmware. There are two Firmware Identification Numbers for the MA7200. The first Firmware Number is for the Main Circuitry of the MA7200, and can be identified at any time by utilizing the Setup Mode.

1. Press and hold in the INPUT Control to enter Setup Mode.
2. Referring to the Front Panel Information Display- the number after the character "V" is the Firmware number.

To view the second Firmware Number, which is for the Digital Audio Circuitry of the MA7200, perform the following steps:

3. Press and hold in the INPUT Control to enter Setup Mode.
4. Rotate the INPUT Control until the Front Panel Information Display indicates "DA2 Firmware, V4.13" (or higher Digital Audio Firmware version.)



5. To exit the Setup Mode, press the INPUT Control.

# McIntosh

## Input Settings

The MA7200 provides the ability to switch unused INPUTS Off (or back On if they have been previously switched Off). The default INPUT Names can be changed to match the name of the component connected to it, or any other custom name desired (within 10 Characters).

### INPUT Switched On/Off

In the following example, the UNBAL 4 Input will be switched Off.

*Note: When an INPUT is switched Off, its name will no longer appear on the Front Panel Information Display when using the INPUT Control (Front Panel or Remote Control.)*

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until “SETUP: Inputs, (Hold INPUT)” appears on the Information Display.

```
SETUP: UNBAL 4
On/Name (Hold INPUT)
```

3. Press and hold in the INPUT Control until “SETUP: UNBAL 4, On / Name (Hold INPUT)” appears on the Display. If necessary rotate the INPUT Control to select the UNBAL 4 Input.
4. To switch the UNBAL 4 Input Off, rotate the VOLUME Control until the display indicates “SETUP: UNBAL 4, Off.”

```
SETUP: UNBAL 4
Off
```

5. Exit the SETUP Mode by several presses of the INPUT Control.

In the following example, the UNBAL 4 Input will be switched On.

*Notes: When an INPUT is switched ON, its name will appear on the Front Panel Information Display when using the INPUT Control (Front Panel or Remote Control).*

6. Press and hold in the INPUT Control to enter the SETUP MODE.
7. Rotate the INPUT Control until “SETUP: Inputs, (Hold INPUT)” appears on the Information Display.

```
SETUP: Inputs
(Hold INPUT)
```

8. Press and hold in the INPUT Control until “SETUP: UNBAL 4, Off” appears on the Display. If necessary rotate the INPUT Control to select the UNBAL 4 Input.
9. To switch the UNBAL 4 Input On, rotate the VOLUME Control until the display indicates “SETUP: UNBAL 4, On / Name”.
10. Exit the SETUP Mode by several presses of the INPUT Control.

### Rename INPUT

In the following example, the BAL (BALANCED) Input will be renamed to match up with the component connected.

The MA7200 Default Input Names (UNBAL 1, BAL, COAX 1, etc.) as indicated on the Front Panel Display can be customized to a different name up to ten characters long (TUNER, CD PLAYER, etc.). The available characters for renaming the input include the following: ! < > \* , / - \_ 0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z .

In the following example, the BAL Input will be renamed to “MEDIA SVR.”

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until “SETUP: Inputs, (Hold INPUT)” appears on the Information Display.
3. Press and hold in the INPUT Control until “SETUP: BAL, On / Rename” appears on the Display. If necessary rotate the INPUT Control to select the BAL Input.

```
SETUP: BAL
ON / Rename
```

4. Press and hold in the INPUT Control until “RENAME: BAL, >BAL <” appears on the Display. The character “B” is flashing to indicate it is ready to be changed.

```
RENAME: BAL
>BAL
```

5. Rotate the VOLUME (ADJUST) Control to change the character “B” to “M.”

```
RENAME: BAL
>MAL
```

6. Rotate the INPUT Control until the character “A” is flashing, then rotate the VOLUME (ADJUST) Control to change the character “A” to “E.”

```
RENAME: BAL
>MEL
```

7. Rotate the INPUT Control until the character “L” is flashing, then rotate the VOLUME (ADJUST) Control to change the character “L” to “D.”

```
RENAME: BAL
>MED
```

## Input Settings *continued*

8. Rotate the INPUT Control until the “\_” empty space to the right of character D is flashing, then rotate the VOLUME (ADJUST) Control to change the “\_” empty space to character to “I.”

```
RENAME: BAL
      >MEDI
```

9. Rotate the INPUT Control until the “\_” empty space to the right of character I is flashing, then rotate the VOLUME (ADJUST) Control to change the “\_” empty space to character to “A.”

```
RENAME: BAL
      >MEDIA
```

10. Repeat step 19 until the new name of “RENAME: BAL, MEDIA SVR” is indicated on the Front Panel Display.

```
RENAME: BAL
      >MEDIA SVR
```

11. To save the new name, press and hold in the INPUT Control until “SETUP: MEDIA SVR, ON / Rename” appears on the Front Panel Information Display.

```
SETUP: MEDIA SVR
      On / Rename
```

12. Exit the SETUP Mode by several presses of the INPUT Control.

## Output Settings

The Output Settings provide the ability to change how the MA7200 Output 1, Output 2, and Headphones function.

### OUTPUT 1 and 2

By default OUTPUT 1 and 2 are set to go On/Off by using the Front Panel OUTPUT 1 and 2 Push-buttons, or by using the OUTPUT 1 and 2 Push-buttons on the Remote Control. If it is desirable to have OUTPUT 1 and/or 2 always On regardless of the OUTPUT 1 and 2 Push-button settings, perform the following:

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until “SETUP: Outputs, (Hold INPUT)” appears on the Information Display.

```
SETUP: Outputs
      (Hold INPUT)
```

3. Press and hold in the INPUT Control until “SETUP: OUTPUT 1, Switched” appears on the Display.
4. Rotate the VOLUME (ADJUST) Control to change from the “Switched” setting to “Unswitched.”

```
RENAME: OUTPUT 1
      Switched
```

```
RENAME: OUTPUT 1
      Unswitched
```

5. In a similar manner, perform steps 3 and 4 to change the OUTPUT 2 setting.

```
RENAME: OUTPUT 2
      Switched
```

```
RENAME: OUTPUT 2
      Unswitched
```

The MA7200 Default Setting for using Headphones is to automatically mute all the Output Connectors when the Headphone Cable Plug is inserted into the MA7200 Front Panel HEADPHONES Jack. There are two available settings:

Mute All Outputs

Mute No Outputs

6. Rotate the INPUT Control until “SETUP: HEADPHONES, Mute All Outputs” appears on the Information Display.

```
SETUP: HEADPHONES
      Mute All Outputs
```

7. Rotate the VOLUME (ADJUST) Control to change the current HEADPHONES setting from “Mute All Outputs” to “Mute No Outputs.”

```
SETUP: HEADPHONES
      Mute No Outputs
```

8. Exit the SETUP Mode by several presses of the INPUT Control.

## Power Control Triggers 1 and 2

By default the Power Control TRIGGER 1 and TRIGGER 2 are assigned to activate when Output 1 or Output 2 is selected. Triggers 1 and 2 can be reassigned to function the same as the MAIN Power Control Jack, or be assigned to a given Input.

*Note: The MAIN Power Control Jack is controlled by the STANDBY/ON Front Panel Push-button and the Remote Control Power Push-buttons.*

In the first example, the Power Control Triggers 1 and 2 will be assigned to MAIN:

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until “SETUP: Triggers, (Hold INPUT)” appears on the Information Display.

```
SETUP: Triggers
(Hold INPUT)
```

3. Press and hold in the INPUT Control until “SETUP: TRIGGER 1, Output 1” appears on the Display.

```
SETUP: Trigger 1
Output 1
```

4. Rotate the VOLUME (ADJUST) Control to select “MAIN” from the available additional selections including Output 2 or Input.

```
SETUP: Trigger 1
Main
```

5. In a similar manner, perform steps 3 and 4 to change the Trigger 2 setting from OUTPUT 2 to Main.

```
SETUP: Trigger 2
Output 2
```

In the second example, Trigger 2 will activate when the BAL Input is selected:

6. Rotate the INPUT Control to select “SETUP: TRIGGER 2, Main” appears on the Display.

```
SETUP: Trigger 2
Main
```

7. Rotate the VOLUME (ADJUST) Control until “SETUP: TRIGGER 2, Input (Hold INPUT)” appears on the Display.

```
SETUP: Trigger 2
Input (Hold INPUT)
```

8. Press and hold in the INPUT Control until “SETUP: TRIGGER 2, Bal: OFF” appears on the Display.

```
SETUP: Trigger 2
Bal : OFF
```

9. Rotate the VOLUME (ADJUST) Control to select “Bal : ON.”

```
SETUP: Trigger 2
Bal : ON
```

10. Exit the SETUP Mode by several presses of the INPUT Control.

## Data Ports

Data Port Connections between the MA7200 and a McIntosh Source Component allow for basic function control of the source component using the MA7200 supplied HR085 Remote Control. By default, all of the four Data Ports are set to send the same Data to the selected source. To dedicate a given Data Port for only one source component (example: source component connected to the BAL Input will be assigned to Data Port 1) perform the following Steps:

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until “SETUP: Data Ports, (Hold INPUT)” appears on the Information Display.

```
SETUP: Data Ports
(Hold INPUT)
```

3. Press and hold in the INPUT Control until “SETUP: DATA PORT 1, All Data” appears on the Display.

```
SETUP: Data Port 1
All Data
```

4. Rotate the VOLUME (ADJUST) Control to select the “BAL” Input.

```
SETUP: Data Port 1
BAL
```

5. In a similar manner, perform steps 3 and 4 to assign any additional Data ports.
6. Exit the SETUP Mode by several presses of the INPUT Control.

## Passthru

When the MA7200 is part of a Home Theater or Multichannel Audio System the Right and Left Front Channels from an Audio/Video Processor or Surround Decoder can “Passthru” from the assigned MA7200 Input, into the MA7200 Power Amplifier Circuitry. The “Passthru” Audio Signal is also available for a separate external Power Amplifier(s) via the number 1 Preamplifier Output Jacks. The Setup Mode allows selection of the specified MA7200 Input to be used for the Right and Left Front Channels. In the example below, the Right and Left Front Channels from the Audio/Video Processor will be connected to the UNBALANCED 5 INPUT Jacks on the MA7200.

*Note: The Phono and Digital Inputs are not assignable as a Passthru Input.*

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until “SETUP: Passthru, Off” appears on the Information Display.

```
SETUP: Passthru
      Off
```

3. Rotate the VOLUME (ADJUST) Control to select “SETUP: Passthru, UNBAL 5” Input.

```
SETUP: Passthru
      UNBAL 5
```

4. Exit the SETUP Mode by several presses of the INPUT Control.

## HDMI Settings

### HDMI CEC Settings:

```
SETUP: HDMI CEC
      [ ON, OFF ]
```

ON: Allows compatible devices to use CEC (Consumer Electronics Control) to control certain functions of the MA7200.

OFF: Prevents MA7200 from being controlled with CEC.

```
SETUP: HDMI CEC PWR
      [ ON, OFF ]
```

ON: Allows compatible devices to use CEC (Consumer Electronics Control) to power On/Off the MA7200 or be powered On/Off by the MA7200.

OFF: Prevents devices from using CEC power On/Off the MA7200 or be powered On/Off by the MA7200.

### HDMI Lip Sync Mode Settings:

```
SETUP: Lip Sync Mode
      [ Auto, Manual ]
```

Auto: The MA7200 will automatically synchronize video and audio signals received through HDMI.

Manual: Disabled auto video/audio synchronization through HDMI, allowing you to manually calibrate audio/video sync from connected devices.

### Digital Gain Settings:

```
SETUP: Digital Gain
      (Hold Input)
```

```
SETUP: [HDMI, OPTI 1, OPTI 2] Gain
      [Volumes in dB]
```

To get more even playback Volume from your connected digital devices, adjust their individual volumes with this Setting. The defaults are +15dB for HDMI and +0dB for Optical.

## Comm Port Baud Rate

The MA7200 may be remotely controlled from other equipment connected to the Rear Panel RS232 Jack. The speed at which the MA7200 communicates (8 bit, no parity, and 1 stop bit) with other equipment is adjustable from 9,600 bits per second to 115,200 bits per second. To change from the default speed of 115,200 bits per second, perform the following steps:

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until “SETUP: RS232, 115200 Baud” appears on the Information Display.

```
SETUP: RS232
      115200 Baud
```

3. Rotate the VOLUME (ADJUST) Control to select the desired Baud Rate Speed.
4. Exit the SETUP Mode by several presses of the INPUT Control.

## Remote Control Codes

---

The HR085 Remote Control included with the MA7200 utilizes the NORMAL McIntosh Control Codes. The Second Set of Control Codes the MA7200 will respond to is referred to as the ALTERNATE Codes. The Alternate Codes are used when the MA7200 is used in the same location as another McIntosh Preamplifier and/or A/V Processor. This will prevent the Remote Control from affecting the operation of both units at the same time. To activate the Remote Control ALTERNATE Codes perform the following steps:

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until "SETUP: IR Codes, Normal" appears on the Information Display.

```
SETUP: IR Codes
Normal
```

3. Rotate the VOLUME (ADJUST) Control to the Alternate Codes.

```
SETUP: IR Codes
Alternate
```

4. It is now necessary to change the HR085 Remote Control over to the Alternate Codes. Information on the HR085 Remote Control is available from your dealer.
5. Exit the SETUP Mode by several presses of the INPUT Control.

## IR Sensor

---

The MA7200 Front Panel Sensor, which receives the signals from the HR085 Remote Control, can be switched off to prevent interference when an external IR Sensor is connected. To de-activate the Front Panel IR Sensor perform the following steps:

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until "SETUP: Front IR, Enabled" appears on the Information Display.

```
SETUP: Front IR
Enabled
```

3. Rotate the VOLUME (ADJUST) Control to select Disabled.

```
SETUP: Front IR
Disabled
```

4. Exit the SETUP Mode by several presses of the INPUT Control.

## Power Mode

---

The MA7200 incorporates an Auto Off Feature, which automatically places the preamplifier into the Power Saving Standby/Off Mode. This occurs approximately 30 minutes after there has been an absence of user activity (includes changes to any of the Operation Functions such as source selection, volume adjustment, etc.) or absence of an audio signal. If it is desirable to disable the Auto Off Feature perform the following steps:

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until "SETUP: Auto Off, Enabled" appears on the Information Display.

```
SETUP: Auto Off
Enabled
```

3. Rotate the VOLUME (ADJUST) Control to select Disabled.

```
SETUP: Auto Off
Disabled
```

4. Press the INPUT Control to exit the Setup Mode.

## Factory Reset

---

If it becomes desirable to reset all the adjustable settings (Setup and Trim Settings) to the factory default values, perform the following steps:

1. Press and hold in the INPUT Control to enter the SETUP MODE.
2. Rotate the INPUT Control until "FACTORY RESET, (Hold INPUT)" appears on the Information Display.

```
FACTORY RESET
(Hold INPUT)
```

3. Press and hold in the INPUT Control until "FACTORY RESET, In Progress!" appears on the Information Display, then release the INPUT Control.

```
FACTORY RESET
In Progress!
```

4. Press the Front Panel STAND/BY Push-button to switch On the MA7200.

```
FACTORY RESET
Completed!
```

## Reset of the Microprocessors

---

In the unlikely event the controls of the MA7200 stop functioning, the microprocessors can be reset by performing the following:

1. Press the STANDBY/ON Push-button until the STANDBY/ON LED Indicator switches Off.
2. Then release the STANDBY/ON Push-button and the MA7200 will switch Off.
3. When the STANDBY/ON LED is illuminated press the STANDBY/ON Push-button, the MA7200 will resume normal operation.

*Note: This can be performed with the MA7200 On or in the Standby Mode.*

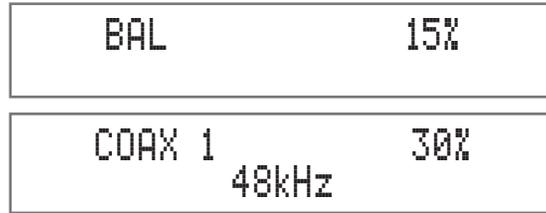
## How to Operate the MA7200

### Power On and Off

The Red LED above the STANDBY/ON Push-button lights to indicate the MA7200 is in Standby mode. To switch ON the MA7200, press the STANDBY/ON Push-button on the Front Panel, or press the  (Power - Green) Push-button on the Remote Control. The MA7200 will go through a brief startup initialization with the Front Panel Display indicating Power Guard is active, last used source, and volume setting. This is followed by the volume setting indication starting at zero, and then increasing to the last used volume setting.

To switch OFF the MA7200, press the STANDBY/ON Push-button on the Front Panel or the  (Power - Red) Push-button on the Remote Control.

*Note: For an explanation of the Remote Control Push-button functions, refer to page 12.*



### Source Selection

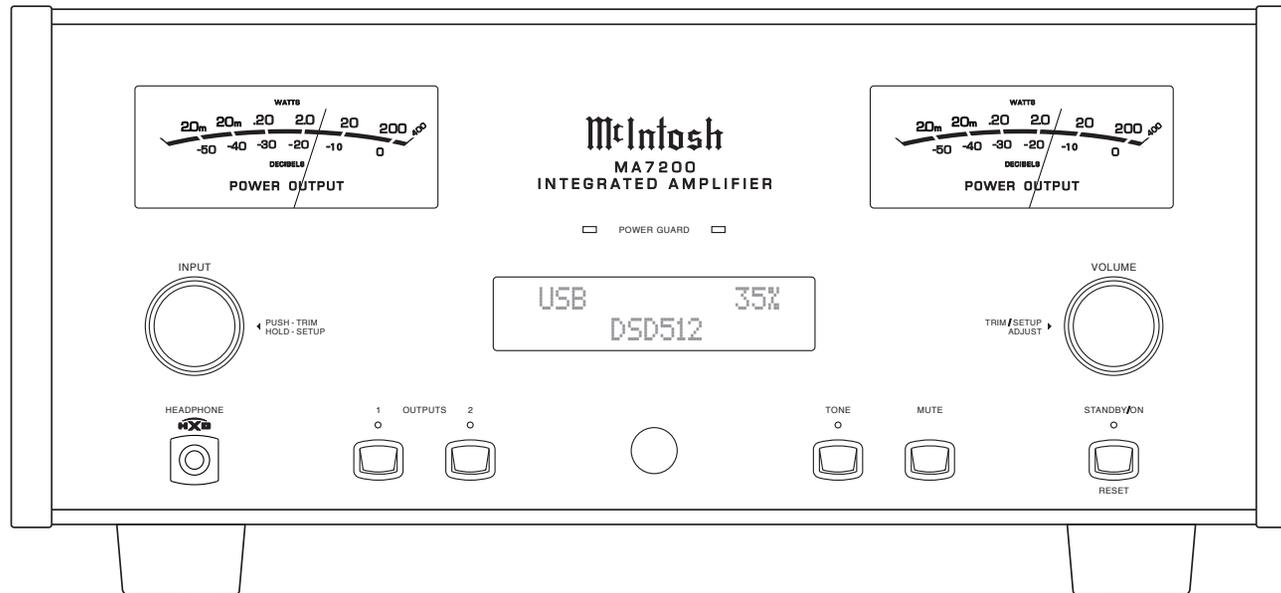
Rotate the INPUT Control to select the desired source or press the INPUT Up▲ or Down▼ Push-button on the Remote Control.

### Volume Control

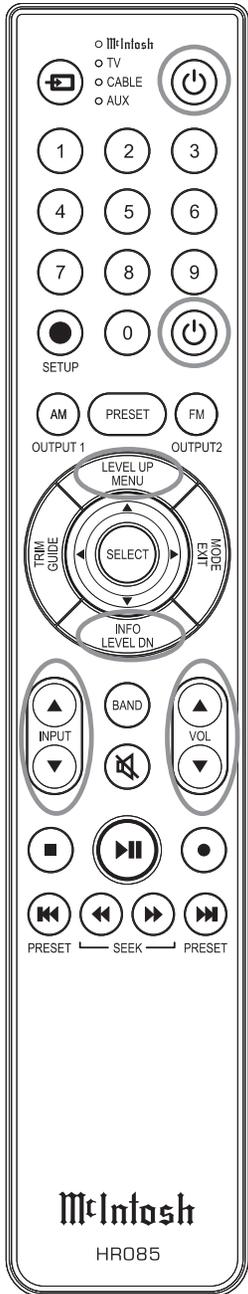
Rotate the Front Panel VOLUME Control or use the VOLUME Up▲ or Down▼ Push-buttons on the Remote Control for the desired listening level.

### Trim Functions

The MA7200 has various Trim Selections with Adjustments. The Trim Functions include Balance, Input Trim Level, Tone Controls, Bass, Treble, Phono Cartridge MC Loading (when the Input is Selected), Mono/Stereo, Meter Backlight, Display Brightness, and HXD Mode (when Headphones are connected.) The Trim Settings are stored in memory independently for each Input Source Selected, except the Meter Illumination and Digital Audio Display settings of On or Off, which are the same for all inputs. After approximately 5 seconds the Display returns to indicate the Source Selection and Volume Level.



*Note: Selection and Adjustment of all Trim Functions may be performed by pressing the Front Panel INPUT Trim Control and then rotating it to select the desired Trim Function. Then use the VOLUME Adjust Control to change the setting. Remote Control TRIM Push-Button together with the LEVEL UP/ Down Push-button may also be used.*



### Balance

Listening balance varies with different program sources, room acoustics, and listening positions relative to the Loudspeakers. Use the Balance (Trim Function) as needed to achieve approximately equal listening volume levels in each Loudspeaker. To adjust the Balance perform the following:

1. Press the TRIM Push-button repeatedly on the Remote Control until “L BALANCE R, ||” appears on the Front Panel Display. *Note: The Front Panel INPUT/Trim Control may also be used.*
2. Rotate the VOLUME/Adjust Control, or press the LEVEL UP / DOWN Push-buttons on the Remote Control to emphasize the Right Channel or the Left Channel. The Front Panel Display indicates the relative Balance changes. After approximately 5 seconds, the Display returns to indicate the Source Selection, and Volume Level. To verify the Balance setting without changing it, use the TRIM Push-button, and select Balance.



### TRIM Level

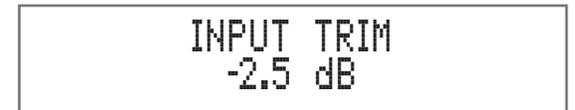
Source Components can have slightly different volume levels resulting in the need to readjust the MA7200 Volume Control when switching between different sources. The MA7200 allows the adjustment of levels for each Source, ensuring the same relative volume. To adjust the Trim Level for the currently selected Input

Source perform the following steps:

1. Select “INPUT TRIM” as indicated on the Front Panel Information Display.
2. Adjust the Trim Level of each Input to match the average volume level of the Input most frequently listened to. The range of adjustment is  $\pm 6.0$ dB in half dB steps.



After approximately 5 seconds the Information Display returns to indicate the Source Selection and Volume Level.



### Tone Control

The Tone Controls default setting is Off. The TRIM TREBLE and BASS Settings may be adjusted for the currently selected Input Source by first setting the Tone Control Trim Setting to On. The LED above the TONE Push-button will be illuminated. When the Tone Controls are Disabled the previous settings for Treble and Bass are bypassed from the signal path. To deactivate Tone Controls perform the following:

1. Select the desired Input Source.
2. Press the TRIM Push-button on the Remote Control until “TONE CONTROLS, Off” appears on the Front Panel Display.



**How to Operate the MA7200 *continued***

3. Press TRIM LEVEL UP / DOWN Push-button to activate the Tone Bypass On.



After approximately 6 seconds the Display returns to indicate the Source Selection and Volume Level.

**Bass**

The Intensity of the Low Frequencies in the music can be increased or decreased by using the Trim Select, and Trim Adjust Controls. To make an adjustment perform the following:

1. Use the Front Panel INPUT/TRIM Control or press the TRIM Push-button on the Remote Control until "BASS 0 dB" appears on the Front Panel Information Display.



2. Rotate the INPUT/TRIM Control or press the LEVEL + / - Push-buttons to increase or decrease the volume level of the low frequencies.

The Front Panel Display indicates the Bass changes in steps from +12dB to -12dB. After approximately 6 seconds the Display returns to indicate the Source Selection and Volume Level.



**Treble**

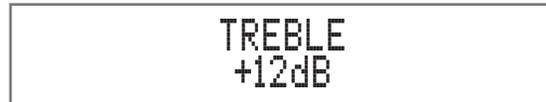
The Intensity of the High Frequencies in the music can be increased or decreased by using the Trim Select and Trim Adjust Control. To make an adjustment perform the following:

1. Use the Front Panel INPUT/TRIM Control or the TRIM Push-button on the Remote Control until "TREBLE, 0 dB" appears on the Front Panel Information Display.



2. Rotate the VOLUME/ADJUST Control or press the LEVEL UP / DOWN Push-buttons to increase or decrease the volume level of the high frequencies.

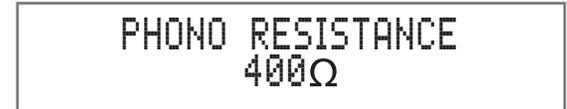
The Front Panel Display indicates the Treble changes in steps from +12dB to -12dB. After approximately 6 seconds the Display returns to indicate the Source Selection and Volume Level.



**Phono Adjustments**

When the MC Phono Input is selected, an additional TRIM SELECT FUNCTION becomes available for adjustment. Perform the following steps to make the Phono Trim Adjustment:

1. Select the MC Phono Source Input.
2. Select TRIM "PHONO RESISTANCE, 400Ω" as indicated on the Front Panel Information Display.



3. Rotate the VOLUME/Adjust Control or press the LEVEL UP / DOWN Push-buttons on the Remote Control to select the Resistance Load that comes closest to the Phono Cartridge Makers recommended value.

After approximately 5 seconds the Alphanumeric Display returns to indicate the Source Selection and Volume Level.

**Mono/Stereo Mode**

By default the Stereo Mode is active for all Input Source, however, any Input Source may be assigned to Mono Mode. To change Stereo Mode to Mono for a given Input Source, perform the following steps:

1. Select the desired Input Source.
2. Select "MONO / STEREO, -----" as indicated on the Front Panel Information Display.



3. To select MONO Mode adjust the TRIM LEVEL. After approximately 5 seconds the Information Display returns to indicate the Source Selection and Volume Level.

### Meter Backlight

The MA7200 Front Panel Meter Illumination may be switched On or Off by performing the following:

1. Select “METER LIGHTS, On” as indicated on the Front Panel Information Display.



2. Switch Off the Meter Illumination.



After approximately 5 seconds the Information Display returns to indicate the Source Selection and Volume Level.

- Notes:*
1. Meter Illumination of recent McIntosh Power Amplifiers will also switch On/Off when connected to the MA7200 via a power control cable.
  2. Some A/V Processors will provide an On/Off Control Signal when the MA7200 Passthru Input Jack is connected to the A/V Processor via the power control cable.

### Information Display Illumination

The Brightness Level of the MA7200 Front Panel Information Display can be adjusted from bright to dim by performing the following:

1. Select “DISPLAY BRIGHTNESS” as indicated on the front panel information display.



2. Reduce the Brightness level by adjusting the TRIM LEVEL.

After approximately 5 seconds the Information Display returns to indicate the Source Selection and Volume Level.

### Headphone HXD

When headphones are connected to the MA7200 Front Panel Jack, an additional TRIM function becomes available. McIntosh’s HXD brings the acoustical depth, and spatiality of music normally heard with loudspeakers to your headphones. The default setting is HXD On. To switch HXD Off perform the following:

1. Momentarily press the INPUT Control, then rotate it to select “HEADPHONE HXD, On.”



2. To deactivate the HXD Mode rotate the VOLUME Adjust Control until the Front Panel Display indicates “HEADPHONE HXD, Off.”

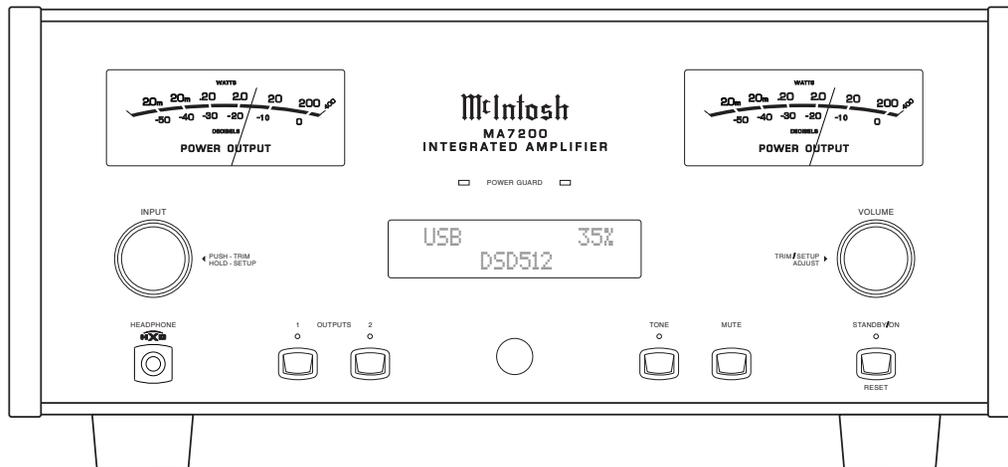


### Tone

Press the Front Panel TONE Push-button to activate the MA7200 TREBLE and BASS Tone Control Circuitry for the currently selected Input Source. The LED above the TONE Push-button will illuminate. To bypass the TONE CONTROL CIRCUITRY for the currently selected Input Source press the TONE Push-button. The LED above the TONE Push-button will extinguish.

### Lip Sync Delay

When the Lip Sync Mode is set to Manual in the Setup Menu, and when the HDMI Input is selected, the Trim menu will allow the HDMI Audio Lip Sync Delay to be adjusted from 0 to 150ms in 10ms intervals.



## How to Operate the MA7200 *continued*

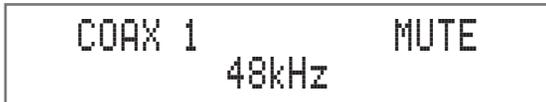
### TRIM

Press the Front Panel INPUT/TRIM Control to activate the MA7200 Trim Functions. Rotate the Front Panel INPUT/Trim Control to select the desired Trim Function and then rotate the VOLUME/Adjust Control to vary or make changes. The Remote Control TRIM and LEVEL UP and LEVEL DOWN Push-buttons may also be used. Approximately 5 seconds after Trim Function Selection and/or adjustments have stopped, the MA7200 will switch off the Trim Mode.

### MUTE

Press the MUTE Push-button to Mute the Audio in Output 1 (Loudspeakers), Output 2 and Headphones. The audio signals present at the FIXED OUTPUT Jacks are not effected by activating the mute function. The Front Panel Display will indicate the Source Name and with the word MUTE in place of the actual volume setting.

Pressing the Mute Push-button a second time or adjusting the volume control will un-mute the MA7200.



### Headphone Jack

Connect a pair of dynamic headphones to the Headphone Jack with a 1/4" (0.635cm) stereo phone type plug for private listening. The default setting is for Output Connections 1 and 2 to automatically mute.

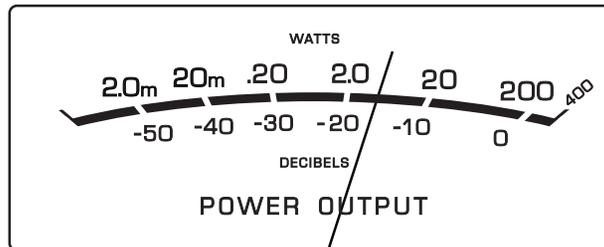
*Note: The Headphone Output is optimized for impedances ranging from 100 to 600 ohms.*

### Power Output Meters

The MA7200 Power Output Meters indicate the power delivered to the Loudspeakers. 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 2kHz tone burst.

### Power Guard

During normal operation the Front Panel Power Guard Indicators will momentarily illuminate during peaks in the audio signals. In the event the MA7200 over heats due to improper ventilation, high ambient temperature and/or impedance mismatch, the internal protection circuits will activate. The Front Panel Power Guard Indicators will continuously illuminate and the audio will be muted. When the MA7200 has returned to a safe operating temperature normal operation will resume.



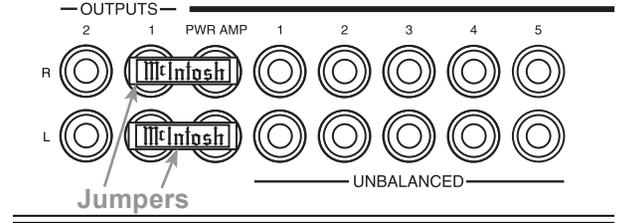
### Using a Separate Power Amplifier

There are two different ways to use a separate power amplifier with a MA7200. The first way is to use the separate amplifier instead of the MA7200 built-in Power Amplifier. Connect the Loudspeakers to the separate Power Amplifier and remove the McIntosh Jumpers that are located between the OUTPUTS 1 Jacks and the PWR AMP INPUT Jacks.

*Note: The McIntosh Jumpers must be connected, between the above mentioned jacks, when the MA7200 Internal Power Amplifier is to be used.*

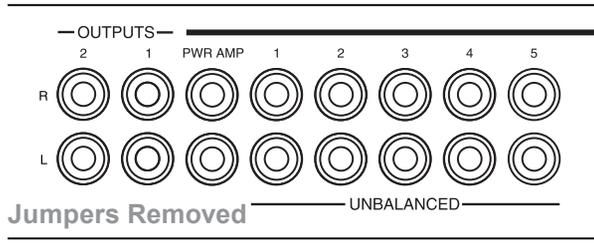
The second way is to use both a separate Power Amplifier and the MA7200 built-in Power Amplifier. Connect one pair of Loudspeakers to the separate Power Amplifier and the second pair to the MA7200.

*Note: The MA7200 VOLUME Control will affect the sound level of all the Loudspeakers.*



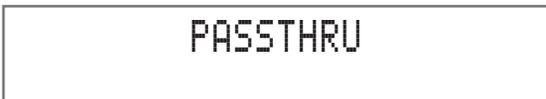
### Using Output 2

The MA7200 has provisions for connecting an external Power Amplifier (to drive Loudspeakers in another room) and an external sensor for remote operation of the MA7200 from that room. With an external Power Amplifier connected, press the Front Panel OUTPUT 2 Push-button, or press on the Remote Control the BLUE (Setup) Push-button followed by pressing the OUTPUT 2 Push-button to switch On or Off the external Power Amplifier.



### Passthru

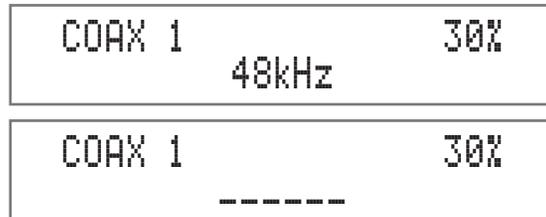
When the MA7200 is connected together with a McIntosh Multichannel A/V Control Center or Surround Decoder and has the PASSTHRU Mode activated, it will automatically turn-on when the A/V Processor or Surround Decoder is turned On. It will indicate on the Front Panel Display “PASSTHRU.” The MA7200 OUTPUT 1 / OUTPUT 2 Front Panel Push-buttons are active when in the Passthru Mode. The other Front Panel Controls and Push-buttons are deactivated as long as the Passthru Mode is active.



### Optical and Coaxial Digital Inputs

When a Digital Input (Optical or Coaxial Connection) on the MA7200 is selected, the Front Panel Display will indicate the sample rate when a signal is present “48kHz”.

During the time there is no Digital Signal present on the selected input the display will indicate “-----”.



### USB Input Operation and Driver Installation

The MA7200 USB Input provides the capability to playback music from a computer, when the computer is connected to the rear panel USB connector.

*Note: The USB Input is for direct connection to a computer only. To playback music from an USB Drive, connect the USB Drive to another USB Port on the computer and select the USB Drive with the Media Playback Program.*

The MA7200 USB Input is compatible with PC Computers using Microsoft®, Windows 7 (SP1), and Windows 10, and 11. It is also compatible with Apple® Macintosh® Computers using OS-10.6.8 or later.

When using a PC Computer with Windows, a special McIntosh USB Audio Software Driver needs to be installed on the PC Computer. The driver needs to be installed before connecting the MA7200 USB Input to the USB Port on the computer.

*Note: If an Apple Macintosh computer is used with the MA7200, no additional driver is required.*

The McIntosh USB Audio Windows Driver is available for download from the McIntosh Web Site in the downloads section of the “MA7200 2-Channel Integrated Amplifier” page.

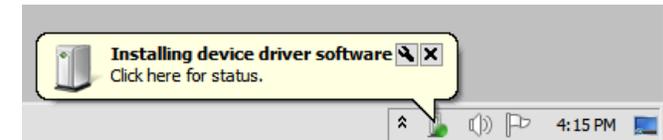
**Purpose:** To Install the McIntosh USB Audio Windows Driver for use with McIntosh Products with an USB-Digital Audio Input.

- Requirements:**
1. A PC Computer with a functioning USB Port.
  2. Windows 7 (SP1 or greater), or Windows 10 Operating System.
  3. An USB Cable with Type-A to Type-B Connectors.

### Installing the Software

It is important to first install the downloaded software on your computer before connecting the McIntosh Product to the computer. The USB Driver is included in the downloaded software package.

*Note: Before installing this software, please check to see if the McIntosh Product(s) with the USB-Digital Audio Input has the latest firmware version, if not update the firmware first.*



### USB Connection

Connect the USB Cable with Type-A to Type-B connectors between the PC Computer and the McIntosh Product with the USB-Digital Audio Input. An Icon will appear On-Screen indicating Windows has found new hardware.

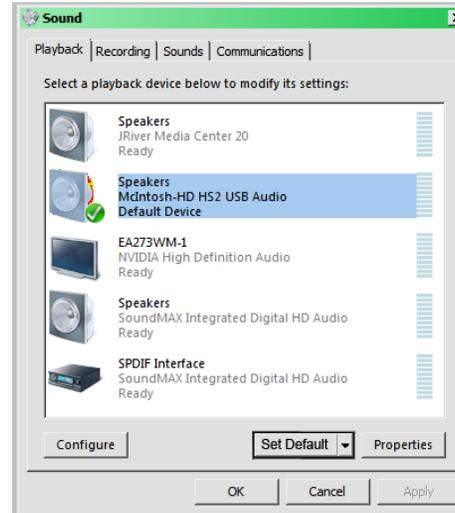
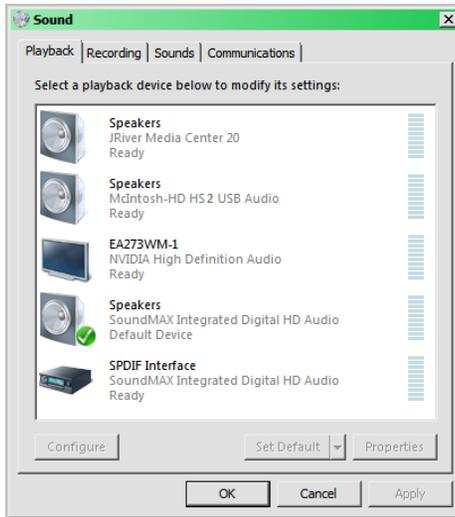


**How to Operate the MA7200 *continued***

**Windows Sound Settings**

For proper operation of the McIntosh Product via the Computer USB Connection, it is required to make changes to Windows Sound Settings:

1. From the Windows START button, click on “CONTROL PANEL” followed by selecting “SOUND.”



2. Select “McIntosh-HD HS2 USB Audio” and then click on the “Set Default” button.

*Notes: 1. When the McIntosh USB Audio Product is not connected to your computer, the previous default Audio Device will be selected. 2. If other McIntosh Products with USB Audio Connections are also connected to the computer, an additional “McIntosh USB Audio” playback device will appear in the listing. Make sure to select the “McIntosh-HD HS2 USB Audio” from available playback devices listed when using this McIntosh Product for USB Audio.*

**USB Music Playback**

When the USB Input is selected on the McIntosh MA7200, the Front Panel Display indicates the Sampling Rate

The following figures indicate a Sampling Rate of DSD512 or 512 times the Sampling Rate of a CD Disc for the incoming DSD Digital Audio Signal. The Sampling Rate and the Bit Rate are determined by the original recording, the Application Output Format (when available.)

There are many third party Applications (besides Applications like Windows Media Player) for steaming music from the computer to McIntosh MA7200 USB Input. An example of just one of the available applications is “JRiver Media Center.”

USB	44.1kHz	46%
USB	352.8kHz	51%
USB	DSD512	46%



## Amplifier Specifications

### FTC Power Output Rating

100 W

### Power Output

200 watts is the minimum sine wave continuous average power output per channel, both channels operating

### Output Load Impedance

2, 4 or, 8 ohms

### Rated Power Band

20Hz to 20kHz

### Total Harmonic Distortion

0.005% maximum with both channels operating from 250 milliwatts to rated power, 20Hz to 20kHz

### Intermodulation Distortion

0.005% maximum, if the instantaneous peak power is 400 watts or less per channel with both channels operating for any combination of frequencies from 20Hz to 20kHz

### Dynamic Headroom

2.0dB

### Wide Band Damping Factor

Greater than 40

### Power Guard

Less than 2% THD with up to 16dB overdrive at 1kHz

### Frequency Response

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

+0, -3dB from 10Hz to 100kHz

### Preamplifier Output 1 and 2 (for rated input)

1.4V unbalanced (8V Maximum)

### Sensitivity (for rated output)

High Level, 250mV unbalanced, 500mV balanced

Phono MM, 2.5mV

Phono MC, 0.25mV

Power Amp In, 1.4V

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

High Level, 95dB below rated output

Phono MM, 82dB below 5mV input

Phono MC, 80dB below 0.5mV input

Power Amplifier, 113dB below rated output

### Input Impedance

High Level, 20K ohms

Phono MM - 47K ohms; 50pF

Phono MC - 50, 100, 200, 400 or 1k ohms; 100pF

### Preamplifier Output Impedance

220 ohms

### Maximum Input Signal

High Level, 8V unbalanced, 16V balanced

Phono MM, 80mV

Phono MC, 8mV

Power Amplifier In, 16V

### Preamplifier Output Impedance

220 ohms

### Headphone Impedance

100 to 600 ohms

### Voltage Gain

High Level to Output 1 and 2: 15dB

Phono MM to Rec Output: 40dB

Phono MC to Rec Output: 60dB

Phono MM to Output 1 and 2: 55dB

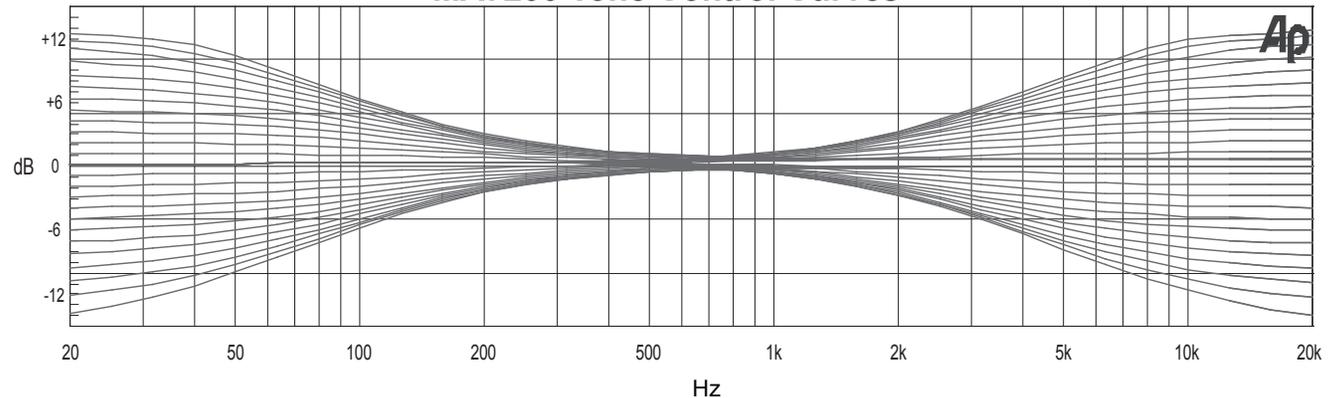
Phono MC to Output 1 and 2: 75dB

Power Amplifier: 29dB

### Power Control and Trigger Output

12VDC, 25mA

MA7200 Tone Control Curves



## Digital Audio Specifications

### Digital Input Signal Format

Coaxial and Optical Inputs - SPDIF (PCM)  
MCT and USB Inputs - PCM, DSD

### Digital Input Sample Rates

Optical: PCM - 16Bit, 24Bit - 44.1kHz to 192kHz  
Coaxial: PCM -16Bit, 24Bit - 44.1kHz to 192kHz  
MCT: PCM, SACD, -16Bit, 24Bit - 44.1kHz to 192kHz  
USB: PCM - 16Bit, 24Bit, 32Bit - 44.1kHz to 384kHz  
DXD - DXD352.8kHz, DXD384kHz  
DSD - DSD64, DSD128, DSD256, DSD512  
HDMI: PCM 24bit, 44.1kHz - 192kHz  
DTS  
Dolby Digital

### Digital Inputs

Coaxial: 0.5V p-p/75 ohms  
Optical: -15dbm to -21dbm (TOS Link)  
MCT: 0.5V p-p/75 ohms  
USB: USB Type-B Connector  
HDMI: 2.0 ARC

## General Specifications

### Power Requirements

**Field AC Voltage conversion of the MA7200 is not possible. The MA7200 is factory configured for one of the following AC Voltages:**

100 Volts, 50/60Hz at 5.2 amps  
110 Volts, 50/60Hz at 4.4 amps  
120 Volts, 50/60Hz at 4.4 amps  
220 Volts, 50/60Hz at 2.45 amps  
230 Volts, 50/60Hz at 2.35 amps  
240 Volts, 50/60Hz at 2.25 amps  
Standby: Less than 0.25 watt

*Note: Refer to the rear panel of the MA7200 for the correct voltage.*

### Overall Dimensions

Width is 17-1/2 inches (44.45cm)  
Height is 7-15/16 inches (20.2cm) including feet  
Depth is 18-3/4 (47.6 cm) including the Front Knobs and Speaker Terminals

### Weight

75 pounds (34.1 kg) net, 93 pounds (42.3 kg) in shipping carton

### Shipping Carton Dimensions

Width is 29-1/2 inches (74.93cm)  
Depth is 29 inches (73.66cm)  
Height is 17 inches (43.18cm)

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The McIntosh MA7200 incorporates copyright protected technology that is protected by U.S. patents and other intellectual property rights. The MA7200 uses the following Technologies:

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	ASIO is a trademark and software of Steinberg Media Technologies GmbH
	Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.
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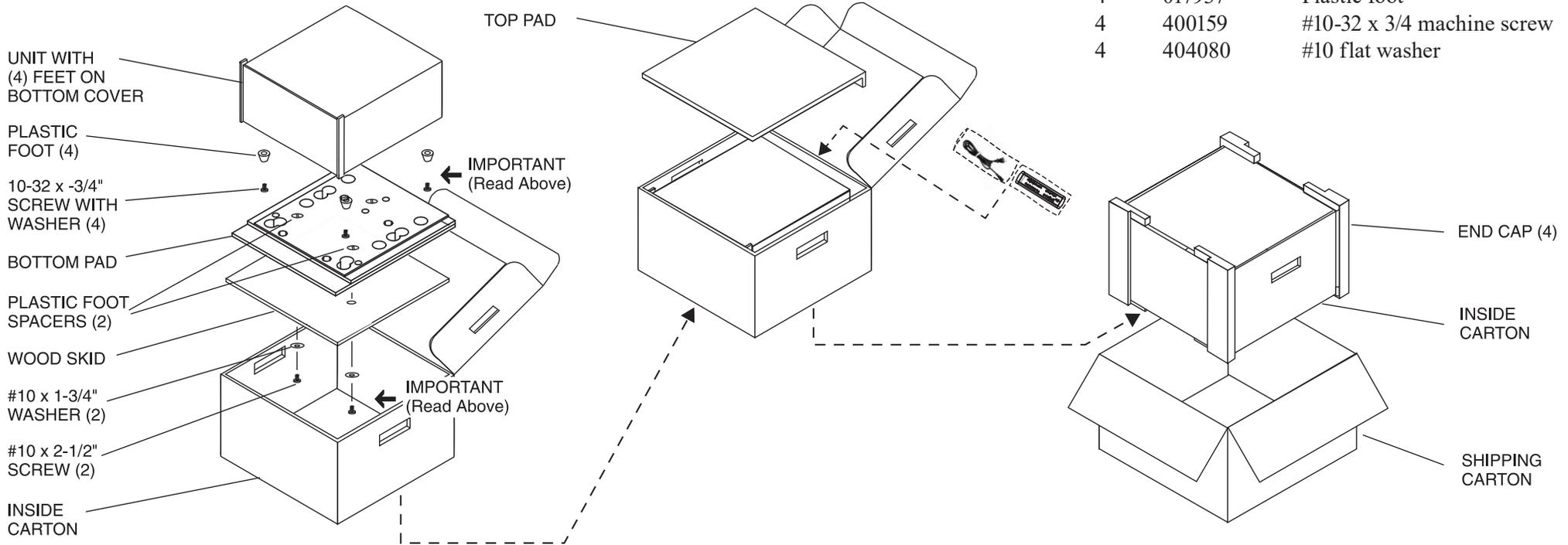
## Packing Instructions

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 2-1/2 inch 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. *Refer to page 2.* Please see the Part List for the correct part numbers.

## MA7200 Packing Material List

Quantity	Part Number	Description
1	033888	Shipping carton
4	034670	End Cap
1	033697	Inner carton
1	033725	Top pad
1	034576	Bottom pad
1	034480	Wood skid
2	017218	Plastic foot (spacer)
2	401204	#10 x 2-1/2 inch wood screw
2	404033	#10 flat washer 1-3/4 inch
4	017937	Plastic foot
4	400159	#10-32 x 3/4 machine screw
4	404080	#10 flat washer



# McIntosh®

MADE OF SOUND™

McIntosh Laboratory, Inc.  
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Binghamton, NY 13903  
[www.mcintoshlabs.com](http://www.mcintoshlabs.com)

The continuous improvement of its products is the policy of McIntosh Laboratory Incorporated who reserve the right to improve design without notice. The MA7200 is designed to employ non-McIntosh-provided services some of which require separate customer subscriptions and some of which do not, as part of the Product's functionality. Because McIntosh cannot control the providers of such services or the services themselves, the owner of the Product therefore assumes all risks related to the use of services provided by anyone other than McIntosh itself. McIntosh cannot and does not warrant against, and shall have no liability of any kind for any of the following that are attributable to non- McIntosh providers or services: (i) interruption, discontinuance, or other unsatisfactory performance of service; (ii) reduced Product functionality that is so attributable; or (iii) any other loss or damage of any kind that is so attributable.

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