

# Loudspeaker System



# XCS2K Owner's Manual



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

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

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

# **IMPORTANT SAFETY INSTRUCTIONS!**

# PLEASE READ THEM BEFORE OPERATING THIS EQUIPMENT.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a non-abrasive dry soft cloth.
- 7. Install in accordance with the manufacturer's instructions.
- 8. This Loudspeaker is capable of producing extremely high sound pressure levels, even when connected to amplifiers of moderate power output. User caution is advised. Ear protection is recommended when playing at high volumes as continued exposure to high sound pressure levels can cause permanent hearing impairment or loss. The use of a Sound Level Pressure Meter will greatly aid in determining when high volume levels are occurring.
- 9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 10. Only use attachments/accessories specified by the manufacturer.
- 11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 13. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
- 14. WARNING: When this Loudspeaker is connected to an amplifier that is Powered On, the connection terminals may have hazardous live voltages present with a risk of electric shock.
- 15. CAUTION: When this Loudspeaker is assembled it weighs 294 pounds (133.4 kgs). It requires three or more persons to safely move the Loudspeaker.

# **Thank You**

Your decision to own this McIntosh XCS2K Loudspeaker System 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 listening enjoyment from this unit. Please take a short time to read the information in this manual. We want you to be as familiar as possible with all the features and functions of your new McIntosh.

# **Please Take A Moment**

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

Serial Number:

Purchase Date:

Dealer Name:

# **Technical Assistance**

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

McIntosh Laboratory, Inc. 2 Chambers Street Binghamton, New York 13903 Phone: 607-723-1545 Fax: 607-724-0549

# **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 Table of Contents

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# **General Information**

*Caution: The XCS2K weight is 294 pounds (133.4kg). It requires three or more persons to safely handle the Loudspeaker System.* 

1. Loudspeaker Cables of adequate size are important to ensure that there will be no significant 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 the Loudspeaker Cables are 50 feet (38.1m) or less, use at least 12 Gauge (AWG) wire size or larger. If the Loudspeaker Cables are 100 feet (76.2m) or less, use at least 10 Gauge (AWG) wire size or larger.

- 2. For additional connection information, refer to the owner's manual(s) for any component(s) connected to the XCS2K Loudspeaker.
- 3. The XCS2K's built-in speaker protection incorporates five automatic resetting solid-state devices in the crossover networks. One protects the tweeters, one for the midranges and three for the woofers. The protection allows a certain amount of overdrive but extended periods will trigger protection. If an obvious lack of high, mid or low frequencies is noticed, the Protection Device may have activated. These devices will automatically reset when the volume level is reduced significantly and kept low until the output of the affected Loudspeaker Element returns to normal.
- 4. When the XCS2K Loudspeaker System is driven by more than one amplifier, the output levels of the different amplifiers connected to the Loudspeaker System must be adjusted to achieve a proper balance between the low, midrange and high frequencies reproduced. This adjustment is best achieved through the use of audio test equipment operated by a qualified installer.

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## Introduction

The new McIntosh XCS2K Loudspeaker System is a Center Channel Loudspeaker capable of reproducing the full dynamic range of a symphony orchestra with very low audible distortion. It is the perfect match to the famous XRT2K Column Loudspeakers, when used in a Home Theater / Music System. It uses the same acoustic technology found in the XRT2K Column Loudspeakers developed by the McIntosh Acoustic Engineers. The technology has been refined over the years and is now the 6th generation of the design and provides superior quality sound repro-

duction in a full range system. The XCS2K Loudspeaker utilizes a Horizontal Arc Array Design with three-quarter inch Titanium Dome Tweeters and multiple rows of two inch Midrange Inverted Titanium Dome Drivers. Refer to figures 1, 2A and 2B. The Sound Waves from this Horizontal Arc Array pro-

duce a stable and focused symmetrical horizontal sound image. Since the audio power fed to each row is distributed among all the drivers, each driver does not have to work as hard, resulting in greater power handling capability, greatly reduced power compression and a dramatic reduction in distortion.







Figure 2A

The Low Frequency Section of the System consists of three 12 inch Aluminum Cone Woofers capable of long cone excursions. Refer to figure 3. The sound produced has very low levels of harmonic distortion and a frequency re-

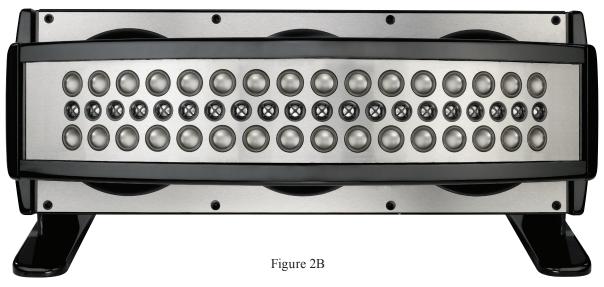
sponse down to 16Hz. They have a large motor assembly made with High Temperature Neodymium magnets with inherent shielding to greatly reduce any external



Figure 3

magnetic field. The woofer design also utilizes an aluminum shorting ring and copper capped pole piece. This results in lower distortion due to more linear magnetic flux in the voice coil gap. A good example of this low distortion is incredible smoothness and effortless clarity in the reproduction of the human voice.

The Crossover Networks used in the XCS2K Loudspeaker System are phase matched between the Low Frequency, Midrange and High Frequency Sections to ensure a smooth frequency response over the entire audible range. Refer to figures 4, 5 and 6. The crossover inductors are selected so they will not add audible distortion. The network capacitors are film type for extra reliability. All the Capacitors and Inductors are chosen for high current capacity. Each section of the network utilizes it own self resetting high current PPTC type fuses to provide an extra measure of protection.



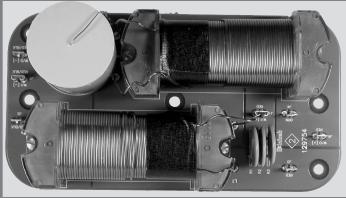


Figure 4



Figure 5

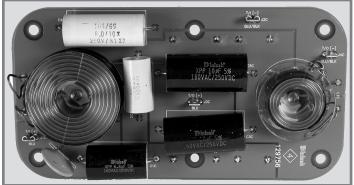


Figure 6

# **Performance Features**

## High Temperature Neodymium-Iron-Boron Alloy Magnets

The 3 twelve inch Woofers, 32 two inch Midranges and 20 three-quarter inch Dome Tweeters all use the Neodymium-Iron-Boron magnets. This Alloy has the highest flux density per unit of volume and helps to keep the Loudspeaker System weight to a minimum while preserving the utmost in performance.

#### • Shielded Magnetic Field

The XCS2K may also be used in Home Theater Installations near a television receiver or monitor without causing the television image to degrade. By design, all of the speaker's magnetic structures are inherently shielded which prevents interference.

## • Low Harmonic and Intermodulation Distortion

The XCS2K Loudspeaker System is capable of reproducing the full dynamic range of a symphony orchestra with very low audible distortion of any kind.

#### • High Power Handling

The Loudspeaker Elements and Crossover Components of the XCS2K are all chosen for use with powerful amplifiers up to 2,000 watts.

#### Superior Imaging

Locating the Tweeters between the two rows of Midranges generates a symmetrical response for superior imaging.

## • Versatile Operation and Placement

In addition to the regular connections, the XCS2K Loudspeaker System provides separate connections for Bi-Amplification and Tri-Amplification hookups, as well as Bi-Wiring and Tri-Wiring.

# • Extruded and Machined Side Panels and Column

The top and bottom of the XCS2K Low Frequency enclosure and the Midrange/Tweeter Column enclosure are machined from extruded thick aluminum panels to be non-parallel and are given a High Gloss Black Piano Type Finish.

# • Gold Plated Input Connectors

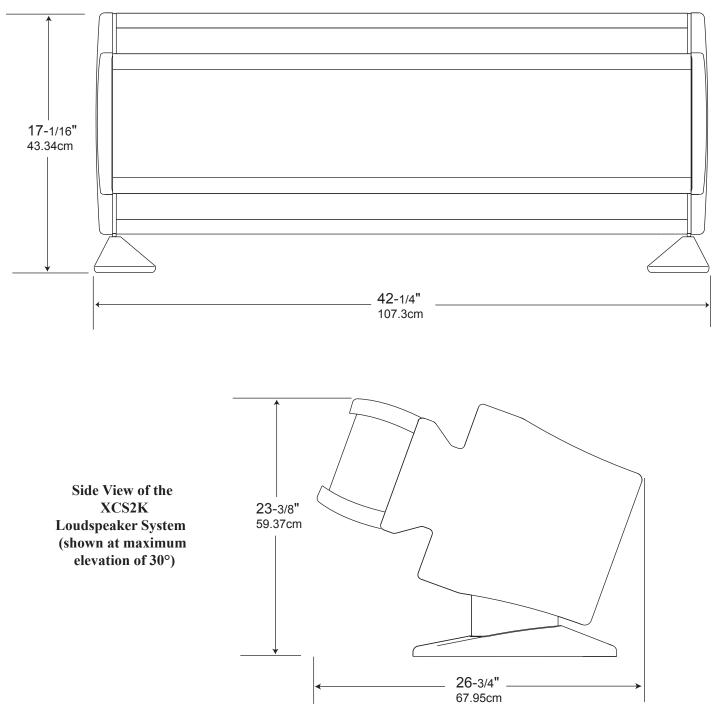
The XCS2K input connectors are gold plated for superior corrosion resistance and high electrical conductivity.

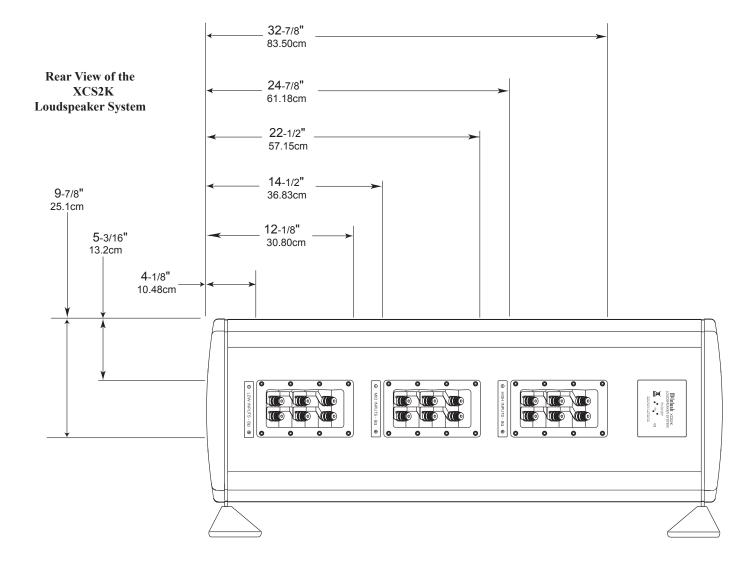


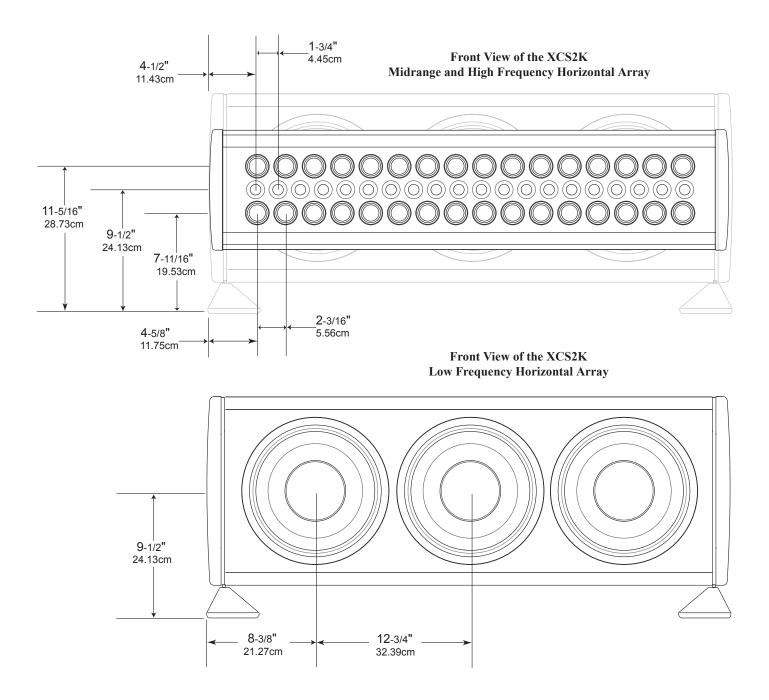
# Dimensions

The following dimensions can assist in determining the best location for your XCS2K Loudspeaker System.

#### Front View of the XCS2K Loudspeaker System





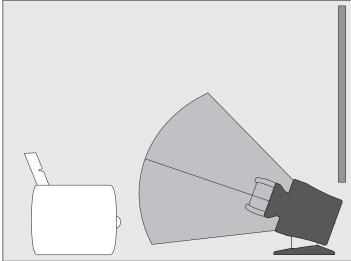


### Installation

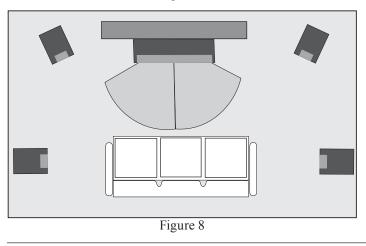
#### Location in the Room

The XCS2K Loudspeaker is designed for use as a Center Channel in a Home Theater System. The optimal method for selecting all the Loudspeaker Locations in a Home Theater System includes the use of a real time spectrum analyzer operated by an experienced system installer. An uncompromising installation would take into consideration the floor, wall and ceiling coverings, the type and placement of furniture and can even include the architectural design of the room and its construction materials. In those instances where placement in the room is fixed an environmental equalizer may be needed to restore proper musical balance.

The XCS2K Loudspeaker's Smooth Frequency Response may be altered by large object(s) located in the path of the sound waves or by locating the Loudspeaker too close to a side wall. There should be an unobstructed area in front of the XCS2K Loudspeaker on either side of the center axis for the best performance. The optimum location in a Home Theater System is directly under or in front of the TV/Monitor. Refer to figures 7 and 8.







#### Unpacking the Loudspeaker

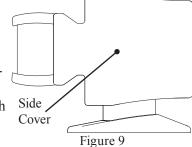
To protect the fine finish of the XCS2K Loudspeaker System during the adjustment process, it is advisable to prepare a suitable adjustment area. A freshly vacuumed carpeted area covered with a soft, clean fabric, such as a large bed linen or blanket would be suitable. Start by unpacking the Loudspeaker.

It is recommended that the Professionals at your McIntosh Dealer, who are skilled in all aspects of installation and operation, install the XCS2K Loudspeaker System and any associated audio equipment.

CAUTION: When this Loudspeaker is assembled it weighs 294 pounds (133.4 kgs). It requires three or more persons to safely handle during assembly, adjustment and placement in the room.

- 1. Orient the XCS2K shipping carton with the arrows on the outside of the carton pointing upward.
- 2. Remove the banding material from the shipping carton.
- 3. Lift off the top of the shipping carton and set it aside.
- 4. Remove the Top Foam from the Loudspeaker.
- 5. Remove the Blue Protective Cloth Cover and set it aside.
- 6. While facing a side of the Loudspeaker, remove the side cover by grasping the outside edges of the cover and

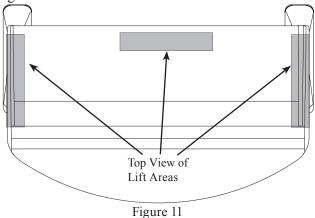
pulling towards you. In a similar manner, remove the other side cover from the Loudspeaker. Place both covers on to the previously removed protective cloth cover for safe keeping. Refer to figures 9 and 10.



Top View Remove Covers Left Side Cover Figure 10

# Installation, con't

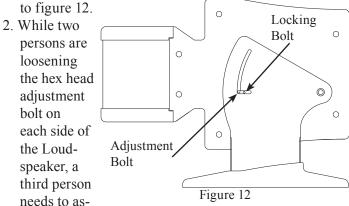
7. With three persons, lift up on the sides and center rear of the Low Frequency Enclosure part of the Loudspeaker. Place the Loudspeaker in the final location. Refer to figure 11.



#### Adjusting the Elevation of the Loudspeaker

The acoustic output of the XCS2K Loudspeaker may be directed to line up with the height of the average ear in the prime viewing/listening area. There is a 30 degree range of adjustment built-in.

1. Using an approprate tool, remove the hex head locking bolt (used during shipping) from each side of the Loudspeaker and retain them for possible future use. Refer



sist by stabilizing the front of the Loudspeaker.

- 3. Rotate the Loudspeaker so the center axis of the Loudspeaker is pointed toward ear level when seated in the main viewing/listening area. Figure 13 illustrates a fifteen degree angle and figure 14 is a thirty degree angle.
- 4. Tighten the adjustment bolt on both sides of the Loud-speaker.
- 5. Reinstall the previously removed side covers.
- 6. Proceed to "How to connect" starting on page 12.

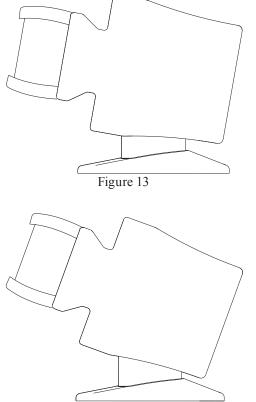
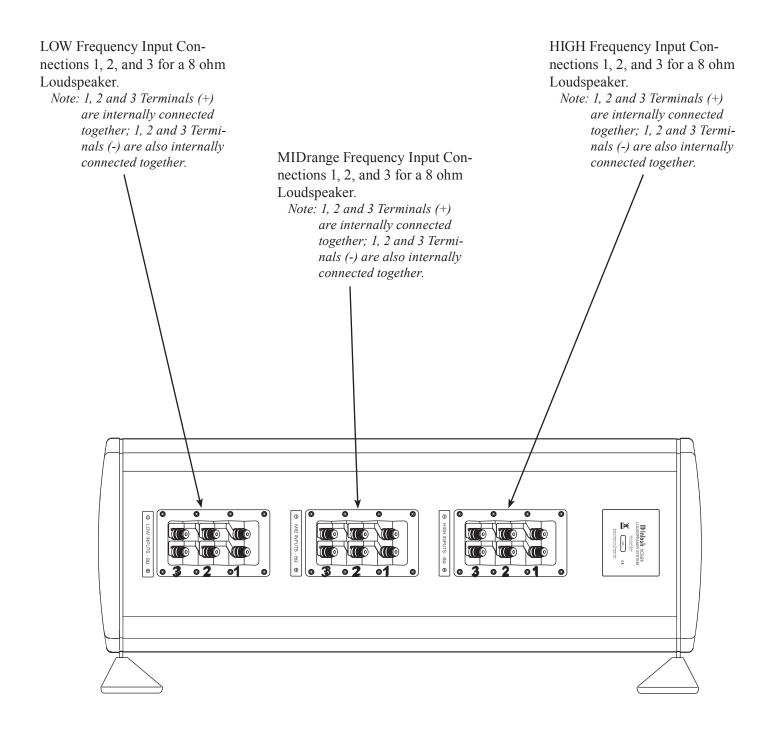


Figure 14



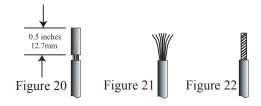
# How to Connect using a single Amplifier

Caution: The AC Power Cord should not be connected to the Power Amplifier until after the Loudspeaker Connections have been made. Failure to observe this could result in Electric Shock.

1. Prepare Loudspeaker cables by choosing one of the methods below:

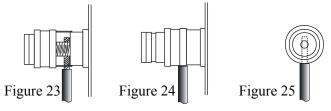
Bare wire cable ends:

Carefully remove sufficient insulation from the cable ends, refer to figures 20, 21 & 22. If the cable is stranded, carefully twist the strands together as tightly as possible.



Note: If desired, the twisted ends can be tinned with solder to keep the strands together or attach spade lugs.

Spade lug or prepared wire connection: Insert the spade lug connector or prepared section of the cable end into the terminal side access hole, and tighten the terminal cap until the cable is firmly clamped into the terminal so the wires cannot slip out. Refer to figures 23, 24 & 25.

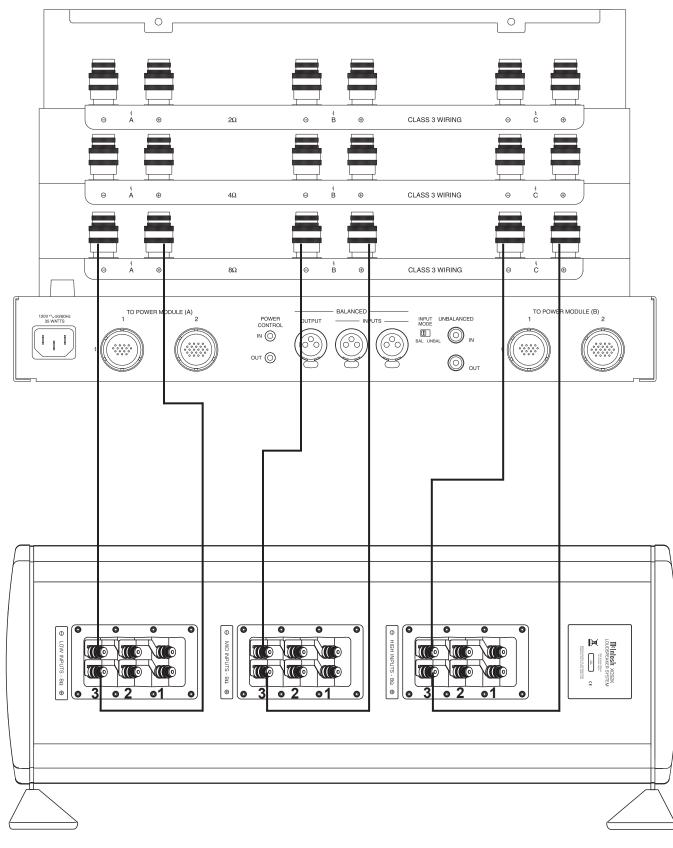


2. Connect a Loudspeaker cable from the XCS2K HIGH Frequency INPUTS 3 (-) Binding Post to the (-) Binding Post C of the Power Amplifier.

*Note: It is important to maintain the correct polarity at both ends of the Loudspeaker cables.* 

- 3. Connect a Loudspeaker cable from the XCS2K HIGH Frequency INPUTS 3 (+) Binding Post to the (8 ohm) Binding Post C of the Power Amplifier.
- 4. Connect a Loudspeaker cable from the XCS2K MID Frequency INPUTS 3 (-) Binding Post to the (-) Binding Post B of the Power Amplifier.
- 5. Connect a Loudspeaker cable from the XCS2K MID Frequency INPUTS 3 (+) Binding Post to the (8 ohm) Binding Post B of the Power Amplifier.

- 6. Connect a Loudspeaker cable from the XCS2K LOW Frequency INPUTS 3 (-) Binding Post to the (-) Binding Post A of the Power Amplifier.
- 7. Connect a Loudspeaker cable from the XCS2K LOW Frequency INPUTS 3 (+) Binding Post to the (8 ohm) Binding Post A of the Power Amplifier.
- 8. Tighten all of the Loudspeaker and Amplifier Binding Posts.



McIntosh MC2KW Power Amplifier

# How to Connect using a two Amplifiers

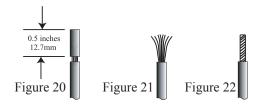
Caution: The AC Power Cord should not be connected to the Power Amplifiers until after the Loudspeaker Connections have been made. Failure to observe this could result in Electric Shock.

Follow the connection instructions below, together with the Connection Diagrams located on the separate folded sheet "Mc1A and 1B", as this represents an example of a typical audio system. Your system may vary from this, however the actual components would be connected in a similar manner.

1. Prepare Loudspeaker cables by choosing one of the methods below:

Bare wire cable ends:

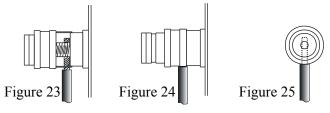
Carefully remove sufficient insulation from the cable ends, refer to figures 20, 21 & 22. If the cable is stranded, carefully twist the strands together as tightly as possible.



Note: If desired, the twisted ends can be tinned with solder to keep the strands together or attach spade lugs.

Spade lug or prepared wire connection:

Insert the spade lug connector or prepared section of the cable end into the terminal side access hole, and tighten the terminal cap until the cable is firmly clamped into the terminal so the wires cannot slip out. Refer to figures 23, 24 & 25.



2. Connect a Loudspeaker cable from the XCS2K HIGH Frequency INPUTS 3 (-) Binding Post to the (-) Binding Post C of the Power Amplifier number two.

*Note: It is important to maintain the correct polarity at both ends of the Loudspeaker cables.* 

- 3. Connect a Loudspeaker cable from the XCS2K HIGH Frequency INPUTS 3 (+) Binding Post to the (8 ohm) Binding Post C of the Power Amplifier number two.
- 4. Connect a Loudspeaker cable from the XCS2K MID Frequency INPUTS 2 (-) Binding Post to the (-) Binding Post B of the Power Amplifier number two.

- 5. Connect a Loudspeaker cable from the XCS2K MID Frequency INPUTS 2 (+) Binding Post to the (8 ohm) Binding Post B of the Power Amplifier number two.
- 6. Connect a Loudspeaker cable from the XCS2K MID Frequency INPUTS 3 (-) Binding Post to the (-) Binding Post A of the Power Amplifier number two.
- 7. Connect a Loudspeaker cable from the XCS2K MID Frequency INPUTS 3 (+) Binding Post to the (8 ohm) Binding Post A of the Power Amplifier number two.
- 8. Connect Loudspeaker cables from the XCS2K LOW Frequency INPUTS 3 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts A of the Power Amplifier number one.
- 9. Connect Loudspeaker cables from the XCS2K LOW Frequency INPUTS 2 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts B of the Power Amplifier number one.
- Connect Loudspeaker cables from the XCS2K LOW Frequency INPUTS 1 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts C of the Power Amplifier number one.
- 11. Tighten all of the Loudspeaker and Amplifier Binding Posts.

# How to Connect using a three Amplifiers

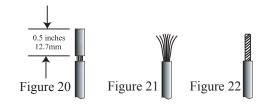
Caution: The AC Power Cord should not be connected to the Power Amplifiers until after the Loudspeaker Connections have been made. Failure to observe this could result in Electric Shock.

Follow the connection instructions below, together with the Connection Diagrams located on the separate folded sheet "Mc1A and 1B", as this represents an example of a typical audio system. Your system may vary from this, however the actual components would be connected in a similar manner.

1. Prepare Loudspeaker cables by choosing one of the methods below:

Bare wire cable ends:

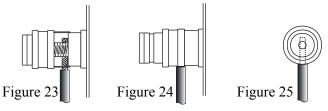
Carefully remove sufficient insulation from the cable ends, refer to figures 20, 21 & 22. If the cable is stranded, carefully twist the strands together as tightly as possible.



Note: If desired, the twisted ends can be tinned with solder to keep the strands together or attach spade lugs.

Spade lug or prepared wire connection:

Insert the spade lug connector or prepared section of the cable end into the terminal side access hole, and tighten the terminal cap until the cable is firmly clamped into the terminal so the wires cannot slip out. Refer to figures 23, 24 & 25.



2. Connect Loudspeaker cables from the XCS2K HIGH Frequency INPUTS 3 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts B of the Power Amplifier number three.

*Note: It is important to maintain the correct polarity at both ends of the Loudspeaker cables.* 

3. Connect Loudspeaker cables from the XCS2K HIGH Frequency INPUTS 2 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts C of the Power Amplifier number three.

- 4. Connect Loudspeaker cables from the XCS2K HIGH Frequency INPUTS 1 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts A of the Power Amplifier number three.
- 5. Connect Loudspeaker cables from the XCS2K MID Frequency INPUTS 3 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts B of the Power Amplifier number two.
- 6. Connect Loudspeaker cables from the XCS2K MID Frequency INPUTS 2 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts B of the Power Amplifier number two.
- 7. Connect Loudspeaker cables from the XCS2K MID Frequency INPUTS 1 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts C of the Power Amplifier number two.
- 8. Connect Loudspeaker cables from the XCS2K LOW Frequency INPUTS 3 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts A of the Power Amplifier number one.
- 9. Connect Loudspeaker cables from the XCS2K LOW Frequency INPUTS 2 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts B of the Power Amplifier number one.
- Connect Loudspeaker cables from the XCS2K LOW Frequency INPUTS 1 (-) and (+) Binding Posts to the (-) and (8 ohm) Binding Posts C of the Power Amplifier number one.
- 11. Tighten all of the Loudspeaker and Amplifier Binding Posts.

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# Specifications

**System Driver Complement** Three 12 inch Aluminum Cone Woofers Thirty-Two 2 inch Titanium Inverted Dome Midranges Twenty 3/4 inch Titanium Dome Tweeters

**Impedance** 8 ohms Nominal

**Frequency Response** 16Hz - 45kHz

Sensitivity 86dB (2.8V/1m equivalent)

**Crossover Frequencies** 250Hz 1,500Hz

**Power Handling** 2,000 Watts Maximum

# **General Specifications**

# **Finish Enclosures**

High Gloss Black Aluminum Sides, Brushed Aluminum Front and Back, High Gloss Black Top and Bottom

**Finish Grille** Black Knit Cloth with High Gloss Black Trim

## **Overall Dimensions**

Width is 42-1/4 inches (107.3cm) Height is 23-3/8 inches (59.37cm) including feet Depth is 26-3/4 inches (67.95cm)

## Weight

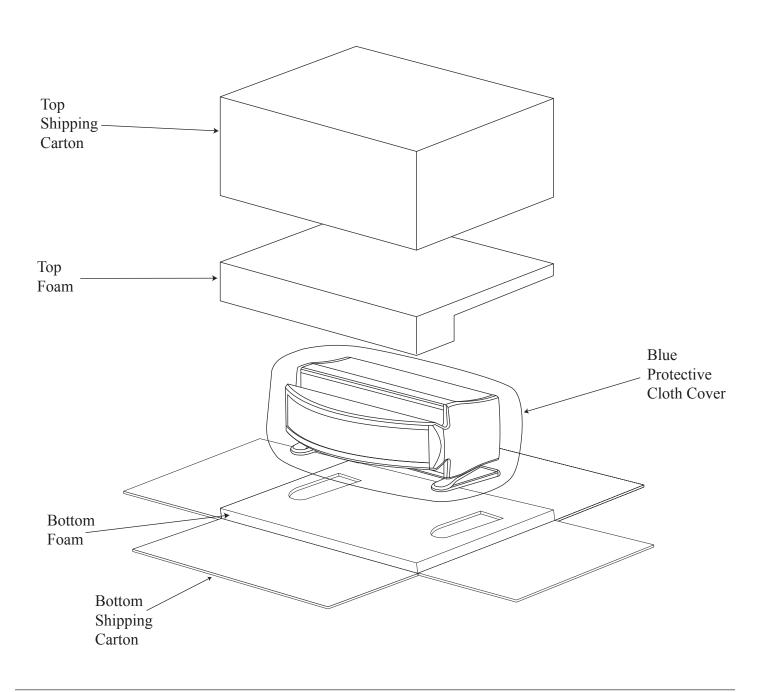
294 pounds (133.4 kg) net 314 pounds (142.4kg) in shipping carton

# **Packing Instructions**

In the event it is necessary to repack the equipment for shipment, the equipment must be packed exactly as shown below. To protect the finish of the Loudspeaker it is advisable to place it in the original protective cotton blue cover before placing them into the shipping carton.

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.

| <u>Quantity</u> | Part Number | Description                 |
|-----------------|-------------|-----------------------------|
| 1               | 034395      | Top shipping carton         |
| 1               | 034396      | Bottom shipping carton      |
| 1               | 034398      | Top foam                    |
| 1               | 034397      | Bottom foam                 |
| 1               | 034353      | Blue Protective cloth cover |
|                 |             |                             |





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