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

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

AVIS RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR.

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

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

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 dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. 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.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. 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.
16. To completely disconnect this equipment from the a.c. mains, disconnect the power supply cord plug from the a.c. receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. Do not expose batteries to excessive heat such as sunshine, fire or the like.
19. Connect mains power supply cord only to a mains socket outlet with a protective earthing connection.
Thank You
Your decision to own this McIntosh MA6300 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: 607-723-3515
Fax: 607-723-1917

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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
1. For additional connection information, refer to the owner’s manual(s) for any component(s) connected to the MA6300 Integrated Amplifier.
2. The Main AC Power going to the MA6300 and any other McIntosh Component(s) should not be applied until all the system components are connected together. Failure to do so could result in malfunctioning of some or all of the system’s normal operations. When the MA6300 and other McIntosh Components are in their Standby Power Off Mode, the Microprocessor’s Circuitry inside each component is active and communication is occurring between them.
3. The Remote Control Supplied with the MA6300 Integrated Amplifier is capable of operating other components. For additional information go to www.mcintoshlabs.com.
**Connector and Cable Information**

**XLR Connectors**
Below is the pin configuration for the XLR Balanced Input Connectors on the MA6300. Refer to the diagram for connection:
- PIN 1: Shield/Ground
- PIN 2: + Output
- PIN 3: - Output

**Power Control Connector**
The MA6300 Power Control Output Jack sends Power On/Off Signals when connected to other McIntosh Components. A 1/8 inch stereo mini phone plug is used for connection to the Power Control Output on the MA6300.

*Note: The Data and Power Control Connecting Cable is available from the McIntosh Parts Department: Data and Power Control Cable Part No. 170-202
Six foot, shielded 2 conductor, with 1/8 inch stereo mini phone plugs on each end.*

**Data Port Connectors**
The MA6300 Data Out Ports send Remote Control Signals to McIntosh Source Components. A 1/8 inch stereo mini phone plug is used for connection.

**McIntosh Plug-In Jumper Connector**
The MA6300 utilizes a phono style Plug-In Jumper to connect the MAIN OUTPUT (Preamplifier Output) jack to the POWER AMPLIFIER INPUT jack for each channel.

*Note: The Jumper Connector is available from the McIntosh Parts Department: McIntosh Jumper Connector Part No. 117-781*

**Introduction**
Now you can take advantage of traditional McIntosh standards of excellence in the MA6300 Integrated Amplifier. The Power Amplifier section of the MA6300, with a power output of 100 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. The MA6300 reproduction is sonically transparent and absolutely accurate. The McIntosh Sound is “The Sound of the Music Itself.”

**Performance Features**

- **Power Output**
The MA6300 consists of a 100 watts per channel stereo Power Amplifier and a sophisticated Preamplifier in one compact unit with less than 0.005% distortion.

- **Electronic Input Switching and Balanced Input**
Digital Logic integrated circuits drive Electromagnetic switches on all seven inputs and operating functions for reliable, noiseless, distortion free switching. The Balanced Input allows the connection of a source component using long cable lengths, without a loss in sound quality.

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

- **Sentry Monitor and Thermal Protection**
McIntosh Sentry Monitor power output stage protection circuits ensure the MA6300 will have a long and trouble free operating life. Built-in thermal protection circuits guard against overheating.

- **Illuminated Power Meters**
The Illuminated Power Output Watt Meters on the MA6300 are peak responding, and indicate the power output of the amplifier.

- **Power Control**
The Power Control Output connection provides convenient Turn-On/Off of McIntosh Source Components connected to the MA6300.

- **Remote Control**
The Remote Control provides control of the MA6300 operating functions and any McIntosh Source Components connected to it.

- **Special Power Supply**
A regulated Power Supply and a special R-Core Power Transformer, ensures stable noise free operation even though the power line varies.

- **Fiber Optic Solid State Front Panel Illumination**
The even Illumination of the Front Panel is accomplished by the combination of custom designed Fiber Optic Light Diffusers and extra long life Light Emitting Diodes (LEDs). The glass Front Panel ensures the pristine beauty of the MA6300 will be retained for many years.
Dimensions

The following dimensions can assist in determining the best location for your MA6300. There is additional information on the next page pertaining to installing the MA6300 into cabinets.

Front View of the MA6300

17-1/2"  
44.45cm

7-1/8"  
18.10cm

7-5/8"  
19.37cm

Side View of the MA6300

18-1/2"  
46.99cm

17"  
43.18cm

3/16"  
0.48cm

13/16"  
2.06cm

3-1/32"  
7.70cm

12-5/8"  
32.07cm

1-1/4"  
3.18cm

Rear View of the MA6300

17"  
43.18cm

6-5/16"  
16.03cm

13-1/4"  
33.65cm
**Installation**

The MA6300 can be placed upright on a table or shelf, standing on its four feet. It also can be custom installed in a piece of furniture or cabinet of your choice. The four feet may be removed from the bottom of the MA6300 when it is custom installed as outlined below. The four feet together with the mounting screws should be retained for possible future use if the MA6300 is removed from the custom installation and used free standing. The required panel cutout, ventilation cutout and unit dimensions are shown.

Always provide adequate ventilation for your MA6300. Cool operation ensures the longest possible operating life for any electronic instrument. Do not install the MA6300 directly above a heat generating component such as a high powered amplifier. If all the components are installed in a single cabinet, a quiet running ventilation fan can be a definite asset in maintaining all the system components at the coolest possible operating temperature.

A custom cabinet installation should provide the following minimum spacing dimensions for cool operation.

Allow at least 6 inches (15.24cm) above the top, 2 inches (5.08cm) below the bottom and 1 inch (2.54cm) on each side of the Integrated Amplifier, so that airflow is not obstructed. Allow 19-1/2 inches (49.53cm) depth behind the front panel. Allow 1-1/8 inch (2.9cm) in front of the mounting panel for knob clearance. Be sure to cut out a ventilation hole in the mounting shelf according to the dimensions in the drawing.

Note: Center the cutout Horizontally on the unit. For purposes of clarity, the above illustration is not drawn to scale.
Connect the MA6300 power cord to a live AC outlet. Refer to information on the back panel of your MA6300 to determine the correct voltage for your unit.

**POWER CONTROL** Output sends a turn-on signal to a McIntosh Source Component or Power Control unit when the MA6300 is turned on.

**DATA PORTS** send signals to McIntosh Source Components to allow control with the MA6300 Remote Control.

**POWER AMP IN** inputs accept signals from a separate external Power Amplifier.

**SUM DATA PORT** sends data signals from all the Data Ports to McIntosh Source Components for control with the MA6300 Remote Control.

**MAIN OUT** sends signals to a separate external Power Amplifier.

**TAPE OUT** sends signals to the input of a recording device.

**CD1 balanced INPUTS** accept high level program source signals.

**PHONO** accepts signals from a Moving Magnet phono cartridge.

**GND** terminal accepts a ground wire from a turntable.

**SPEAKERS LEFT** output connections for 4 or 8 ohm loudspeakers.

**SPEAKERS RIGHT** output connections for 4 or 8 ohm loudspeakers.

**TAPE, TUNER, TV, DVD and CD2 inputs** accept high level program source signals.

**POWER AMP OUT** Jacks to the POWER AMP IN Jacks and are needed for normal operation.

**JUMPER PLUGS** connect the Preamplifier MAINOUT Jacks to the POWER AMP IN Jacks and are needed for normal operation.

**TAPE OUT** sends signals to the input of a recording device.
How to Connect Power and Data Control

The MA6300 has the ability to automatically switch power On/Off to McIntosh Source Components via the Power Control connections. The Data Port Connections allow for the remote operation of basic functions using the MA6300 Remote Control. For additional information refer to “Connector and Cable Information” on page 4.

1. Connect a Control Cable from the MA6300 POWER CONTROL Jack to the Power Control In on the McIntosh SACD/CD Player.
2. Connect a Control Cable from the McIntosh SACD/CD Player Power Control Out Jack to the Power Control In jack on the McIntosh Tuner.
3. Connect a Control Cable from the MA6300 CD1 DATA PORTS Jack to the McIntosh SACD/CD Player Data In Jack.
   Note: If the CD2 unbalanced Audio Inputs are used instead of the Balanced CD1 Inputs, then connect the Control Cable to the CD2 Data Port.
4. Connect a Control Cable from the MA6300 TUNER DATA PORT Jack to the McIntosh Tuner Data In (Tuner 1).
5. Connect any remaining McIntosh Source Components in a similar manner.
   Note: With the addition of a McIntosh Power Controller and Remote Control Translator connected to the MA6300, any McIntosh Classic Components and/or non McIntosh Components connected to the MA6300 can be operated more conveniently. Contact your McIntosh Dealer for additional information.
How to Connect Audio Components

1. Connect a Balanced Audio Cable from the McIntosh SACD/CD Player Audio Outputs to the MA6300 CD1 INPUTS.
   Note: The unbalanced Audio Outputs from the McIntosh CD Player connected to the CD2 INPUTS may be used instead of the Balanced CD1 Inputs.
2. Connect an Audio Cable from a McIntosh Tuner 1Fixed Outputs to the MA6300 TUNER INPUTS.
3. Connect an Audio Cable from a Turntable to the PHONO INPUTS and the Turntable Ground Connection to the GND grounding post.
4. Connect an Audio Cable from the MA6300 TAPE OUTS to the Record Inputs of a Recorder and from the MA6300 TAPE INPUTS to the Recorder Outputs.
5. Connect any remaining Source Components in a similar manner.
Connecting Loudspeakers

**Caution:** The supplied AC Power Cord should not be connected to the Rear Panel of the MA6300 Amplifier until after the Loudspeaker Connections have been made. Failure to observe this could result in Electric Shock. For additional instruction on making Loudspeaker Connections contact your McIntosh Dealer or McIntosh Technical Support.

When connecting Loudspeakers to the MA6300 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:

<table>
<thead>
<tr>
<th>Loudspeaker Impedance</th>
<th>25 feet (7.62 meters) or less</th>
<th>50 feet (15.24 meters) or less</th>
<th>100 feet (30.48 meters) or less</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 Ohms</td>
<td>16AWG</td>
<td>14AWG</td>
<td>12AWG</td>
</tr>
</tbody>
</table>

1. Prepare the Loudspeaker Hookup Cables that attach to the Amplifier by choosing one of the methods below:
   **Bare wire cable ends:**
   Carefully remove sufficient insulation from the cable ends, refer to figures 1, 2 & 3. If the cable is stranded, carefully twist the strands together as tightly as possible.

2. Connect the loudspeaker hookup cables to the output terminals that match the impedance of your loudspeakers, being careful to observe the correct polarities.

3. Connect the MA6300 Power Cord to a live AC outlet.

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

**Banana plug connection:**
Insert the banana plug into the hole at the top of the terminal. Refer to figure 7.

*Note: Banana Plugs are for use in the United States and Canada only.*
How to Connect an external Power Amplifier

The MA6300 has the ability to be connected to an external Preamplifier and/or Power Amplifier. In the example below, the MA6300 is connected to an external McIntosh Power Amplifier and to a McIntosh Loudspeaker with Bi-amp connections. The MA6300 Power Amplifier drives the Midrange/High Frequency Section and the external Power Amplifier drives the Low Frequency Section of the Loudspeaker.

1. Remove the McIntosh Jumpers connected between the MAIN OUT and POWER AMP IN Jacks. Retain them for future use.
2. Connect a pair of “Y” jumper adapters between the MAIN OUT and POWER AMP IN Jacks.
3. Connect an Audio Cable from the just installed “Y” jumper adapters to the unbalanced input jacks on the external McIntosh Power Amplifier.
4. Connect a Control Cable from the MA6300 POWER CONTROL Jack to the Power Control In on the McIntosh Power Amplifier.
5. Using the same Loudspeaker connection methods outlined on page 10, connect the MA6300 SPEAKER Connections to the Midrange/High Frequency Loudspeaker Connections. Connect the external Power Amplifier LEFT and RIGHT OUTPUT Connections to the Loudspeaker Low Frequency Connections.
6. Connect the MA6300 Power Cord to a live AC outlet.
How to Operate the MA6300

Power On
The Red LED above the STANDBY/ON Push-button lights to indicate the MA6300 is in Standby mode. To Switch ON the MA6300, press the STANDBY/ON Push-button on the Front Panel or the (Power) Push-button on the Remote Control. The MUTE LED will light for approximately two seconds after turn on. Refer to figures 8 and 9.

Source Selection
Select the desired source with the appropriate push-button switch on the Front Panel or Remote Control.

Volume Control
Rotate the Front Panel VOLUME Control or use the VOLUME + or - Push-button on the Remote Control for the desired listening level.

Balance Control
Rotate the Front Panel BALANCE Control as needed to achieve approximately equal listening volume levels in each Loudspeaker. Rotate the BALANCE counterclockwise to emphasize the Left Channel by reducing the level of the Right Channel. Rotate the BALANCE clockwise to emphasize the Right Channel by reducing the level of the Left Channel.

Mono
Press the Front Panel MONO Push-button or the MODE Push-button on the Remote Control to combine left and right stereo signals to a Monophonic signal.

Mute
Press the MUTE Push-button on the Front Panel or Remote Control to mute the audio in all outputs except the HEADPHONES and TAPE OUTPUT. The MUTE LED above the push-button flashes to indicate that Mute is active. To un-mute the audio, press MUTE Push-button again, press the Remote Control Volume Push-button(s) or press a Source Push-button.

Headphones Jack
Connect a pair of dynamic headphones to the Headphones Jack for private listening. Press the MUTE Push-button to mute the Loudspeakers.

Note: The Headphone Output is optimized for impedances ranging from 16 to 250 ohms.

Power Output Meters
The MA6300 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 2,000Hz tone burst. Read the Upper Meter Scale if the Loudspeakers connected to the MA6300 are of 8 Ohm Impedance and the Lower Meter Scale if they are 4 Ohms.

Power Guard
During normal operation, the Front Panel Power Guard Indicators will momentarily illuminate during peaks in the audio signals. In the event the MA6300 overheats, due to improper ventilation and/or high ambient temperature, the internal protection circuits will activate. The Front Panel Power Guard Indicators will continuously illuminate and the audio will be muted.

Figure 8
When the MA6300 has returned to a safe operating temperature, normal operation will resume.

**How To Make A Tape Recording**
1. Select the signal you wish to record with the appropriate Source Push-button.
2. Adjust the record level using the recorder volume control and proceed with the recording process.
3. To listen to the playback of the program source just recorded, press the TAPE Push-button.
   *Note: The MA6300 TAPE OUTPUTS are not affected by the VOLUME or BALANCE controls.*

**Reset of Microprocessors**
In the unlikely event the controls of the MA6300 stop functioning, the microprocessors can be reset by performing the following:
1. Press and hold in the STANDBY/ON Push-button for approximately five seconds.
2. When the MA6300 cycles On then Off, release the STANDBY/ON Push-button.
3. When the STANDBY/ON LED is illuminated press the STANDBY/ON Push-button, the MA6300 will resume normal operation.
   *Note: This can be performed with the MA6300 On or in the Standby Mode.*

Figure 9

*Note: For an explanation of the Remote Control Push-button functions, refer to pages 16 and 17.*
Displays On Screen Functions on the McIntosh Music Server and a variety of other McIntosh Components

Remote Control Push-Buttons

Press to Power the MA6300 ON

Press to Power the MA6300 OFF

Press to select certain functions of a McIntosh Tuner connected to the MA6300

Selects On Screen Functions on a variety of McIntosh Components

Selects AM Tuner Operating Functions and Disc Selection on certain McIntosh Disc Players

Selects FM Tuner Operating Functions or Track Selection on certain McIntosh CD Players

Use to select tuner presets, disc tracks or any numbered operation

Selects one of the seven available Audio Sources

Note: Push-buttons whose function is not identified above are for use with other McIntosh Products.
How to use the Remote Control

The supplied HRO71 Remote Control is capable of directly controlling the functions of contemporary McIntosh Source Components connected to the MA6300 via the Data Ports.

*Note: If at any time the MA6300 seems unresponsive to HRO70 Remote Control Commands press the Push-button first.*

**Input Source Selection**
Press the appropriate Source Push-button to select the desired program source.

**Mute**
Press the MUTE Push-button to mute the audio in all outputs except the HEADPHONES and TAPE OUTPUT. The MUTE LED above the push-button will flash on and off to indicate that Mute is active. To unmute the audio, press MUTE Push-button again.

**Mono**
Press the MONO Push-button to switch from Stereo to Mono for Monophonic listening.

**Disc, Server and Tape Functions**
Use these push-buttons to operate a DVD Player, CD Player, CD Changer, Music Server or Recorder.

**Numbered Push-buttons**
Press Push-buttons 0 through 9 to access tuner station presets, tracks on discs or selections on a Music Server.

**Disc and Track**
Use the AM(disc)and FM(track)Push-buttons when a Disc Player or Music Server is being used.

---

**Tuner Push-buttons**
Press the AM or FM Push-button to select the desired broadcast band. Press and release the Seek or Seek Push-button to seek the next available station. Press and hold a Seek or Seek Push-button to seek continuously from station to station.

**Band**
Depending on the McIntosh Tuner connected to the MA6300, pressing the BAND Push-button will either review Tuner Station Presets or switch between available Radio Station Tuning Bands.

**Volume**
Press the VOLume + or - Push-button to raise or lower the listening volume level.

*Note: The Record Signals present at REC OUTPUTS are not affected by volume changes.*

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

**Acc On/Off**
Press ACC ON to turn the power ON or ACC OFF switches AC Power OFF to McIntosh Components when connected to the ACC Power Control Jack.
**Specifications**

<table>
<thead>
<tr>
<th><strong>Power Output</strong></th>
<th><strong>Signal To Noise Ratio (A-Weighted)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>100 watts into an 8 ohm load is the minimum sine wave continuous average power output. The output RMS voltage is 28.3V across 8 ohms</td>
<td>High Level, 97dB below rated output</td>
</tr>
<tr>
<td>160 watts into a 4 ohm load is the minimum sine wave continuous average power output. The output RMS voltage is 25.3V across 4 ohms</td>
<td>Phono, 90dB below 10mV input</td>
</tr>
<tr>
<td><strong>Output Load Impedance</strong></td>
<td><strong>Intermodulation Distortion</strong></td>
</tr>
<tr>
<td>8 and 4 ohms</td>
<td>0.005% maximum, if the instantaneous peak power output is rated power or less per channel with both channels operating for any combination of frequencies from 20Hz to 20,000Hz.</td>
</tr>
<tr>
<td><strong>Rated Power Band</strong></td>
<td><strong>Wide Band Damping Factor</strong></td>
</tr>
<tr>
<td>20Hz to 20,000Hz</td>
<td>200 at 8 ohms</td>
</tr>
<tr>
<td><strong>Total Harmonic Distortion</strong></td>
<td>100 at 4 ohms</td>
</tr>
<tr>
<td>0.005% maximum harmonic distortion at any power level from 250 milliwatts to rated power, 20Hz to 20,000Hz</td>
<td><strong>Input Impedance</strong></td>
</tr>
<tr>
<td><strong>Dynamic Headroom</strong></td>
<td>High Level, 20K ohms</td>
</tr>
<tr>
<td>1.4dB</td>
<td>Phono, 47K ohms; 65pF</td>
</tr>
<tr>
<td><strong>Frequency Response</strong></td>
<td>Power Amp In, 10K ohms</td>
</tr>
<tr>
<td>+0, -0.5dB from 20Hz to 20,000Hz</td>
<td><strong>Maximum Input Signal</strong></td>
</tr>
<tr>
<td>+0, -3dB from 10Hz to 100,000Hz</td>
<td>High Level, 8V</td>
</tr>
<tr>
<td><strong>Preamplifier Main Output</strong></td>
<td>Phono, 90mV</td>
</tr>
<tr>
<td>1V for rated input (8V Maximum)</td>
<td>Power Amplifier In, 8V</td>
</tr>
<tr>
<td><strong>Sensitivity (for rated output)</strong></td>
<td><strong>Main Output Impedance</strong></td>
</tr>
<tr>
<td>High Level, 250mV unbalanced, 500mV balanced</td>
<td>50 ohms</td>
</tr>
<tr>
<td>Phono, 2.5mV</td>
<td><strong>Power Guard</strong></td>
</tr>
<tr>
<td>Power Amp In, 1V</td>
<td>Less than 2% THD with up to 16dB overdrive at 1,000Hz</td>
</tr>
<tr>
<td><strong>Voltage Gain</strong></td>
<td><strong>Power Requirements</strong></td>
</tr>
<tr>
<td>High Level to Tape Output: 0dB</td>
<td>100 Volts, 50/60Hz at 3.6 amps</td>
</tr>
<tr>
<td>High Level to Main Output: 12dB</td>
<td>110 Volts, 50/60Hz at 3.6 amps</td>
</tr>
<tr>
<td>Phono to Main Output: 52dB</td>
<td>120 Volts, 50/60Hz at 3.2 amps</td>
</tr>
<tr>
<td><strong>Power Amp In, 1V</strong></td>
<td>220 Volts, 50/60Hz at 1.8 amps</td>
</tr>
<tr>
<td><strong>Signal To Noise Ratio (A-Weighted)</strong></td>
<td>230 Volts, 50/60Hz at 1.8 amps</td>
</tr>
<tr>
<td><strong>Intermodulation Distortion</strong></td>
<td>240 Volts, 50/60Hz at 1.8 amps</td>
</tr>
<tr>
<td>0.005% maximum, if the instantaneous peak power output is rated power or less per channel with both channels operating for any combination of frequencies from 20Hz to 20,000Hz.</td>
<td><strong>Note:</strong> Refer to the rear panel of the MA6300 for the correct voltage.</td>
</tr>
<tr>
<td><strong>Wide Band Damping Factor</strong></td>
<td><strong>Overall Dimensions</strong></td>
</tr>
<tr>
<td>200 at 8 ohms</td>
<td>Width is 17-1/2 inches (44.45cm)</td>
</tr>
<tr>
<td>100 at 4 ohms</td>
<td>Height is 7-5/8 inches (19.37cm) including feet</td>
</tr>
<tr>
<td><strong>Input Impedance</strong></td>
<td>Depth is 22 inches (55.88cm) including the Front Panel, Knobs and Cables</td>
</tr>
<tr>
<td>High Level, 20K ohms</td>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td>Phono, 47K ohms; 65pF</td>
<td>37 pounds (16.8 kg) net, 55 pounds (24.9 kg) in shipping carton</td>
</tr>
<tr>
<td>Power Amp In, 10K ohms</td>
<td><strong>Shipping Carton Dimensions</strong></td>
</tr>
<tr>
<td><strong>Maximum Input Signal</strong></td>
<td>Width is 25 inches (63.5cm)</td>
</tr>
<tr>
<td>High Level, 8V</td>
<td>Depth is 27 inches (68.6cm)</td>
</tr>
<tr>
<td>Phono, 90mV</td>
<td>Height is 12 inches (30.5cm)</td>
</tr>
</tbody>
</table>
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. 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 3. Please see the Part List for the correct part numbers.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>033888</td>
<td>Shipping carton only</td>
</tr>
<tr>
<td>4</td>
<td>033887</td>
<td>End cap</td>
</tr>
<tr>
<td>1</td>
<td>033697</td>
<td>Inside carton only</td>
</tr>
<tr>
<td>1</td>
<td>033725</td>
<td>Top pad</td>
</tr>
<tr>
<td>1</td>
<td>034301</td>
<td>Bottom pad</td>
</tr>
<tr>
<td>1</td>
<td>033699</td>
<td>Shipping skid</td>
</tr>
<tr>
<td>2</td>
<td>017218</td>
<td>Plastic foot spacers</td>
</tr>
<tr>
<td>2</td>
<td>101204</td>
<td>#10 x 2-1/4” wood screws</td>
</tr>
<tr>
<td>2</td>
<td>104033</td>
<td>#10 x 1-3/4” flat washer</td>
</tr>
<tr>
<td>4</td>
<td>017937</td>
<td>Plastic foot</td>
</tr>
<tr>
<td>4</td>
<td>100159</td>
<td>#10-32 x 3/4” screw</td>
</tr>
<tr>
<td>4</td>
<td>104083</td>
<td>#10-7/16” Flat washer</td>
</tr>
</tbody>
</table>
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