



McIntosh Laboratory, Inc. 2 Chambers Street Binghamton, New York 13903-2699 Phone: 607-723-3512 www.mcintoshlabs.com

MHP1000
Headphones
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 disassemble.
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. Install in accordance with the manufacturer's instructions.
7. Clean only with a dry soft cloth.
8. These Headphones are capable of producing extremely high sound pressure levels, even when connected to amplifiers headphone output jack of moderate power output. To prevent damage to the Ear, it is

recommended not to play 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 may aid in determining when high volume levels are occurring. With music playing through the Headphones, place the Sound Level at a distance of one inch from the inside surface of the Headphones and adjust the Amplifier Volume Control so the average levels of the music DO NOT EXCEED A READING OF 85dBA Decibels on the Sound Level Meter.

9. Do not use the Headphones when operating a motor vehicle or under circumstances where the inability to hear sounds from outside the Headphones may present a danger to the user or others.
10. Do not use the Headphones while in a Bathtub or Swimming Pool. Do not use the Headphones while operating Metal and/or Woodworking Power Tools.

11. Only use attachments/accessories specified by the manufacturer or sold with the Headphones.
12. Refer all servicing to qualified service personnel. Servicing is required when the Headphones have been damaged in any way, liquid has been spilled or objects have fallen onto the Headphones, the Headphones have been exposed to rain or moisture, does not operate normally, or have been dropped.
13. Do not place on or near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not expose the Headphones to dripping or splashing of liquids.
14. WARNING: When the Headphones are connected to an amplifier that is Powered On, the Headphones connection cable jacks may have hazardous live voltages present with a risk of electric shock.

Thank You

Your decision to own this McIntosh MHP1000 Headphones ranks you at the very top among discriminating music listeners. You now have the best. The McIntosh dedication to precision performance assures many years of musical enjoyment.

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: _____

Note: Serial Number is on the bottom of the Headphone Inner Carton

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

1. For additional connection information, refer to the owner's manual(s) for any of the component(s) the MHP1000 will be connected to.
2. The MHP1000 Headphones may be connected using the supplied cables, to either a 1/4 inch (6.3mm) or 3.5mm (1/8 inch) Stereo Jack designed to power Headphones. These jacks can be found on Preamplifiers, A/V Control Centers, Integrated Amplifiers, Receivers and Power Amplifiers.
3. Sound Intensity is measured in units called Decibels and "dB" is the abbreviation.
4. When discarding the unit, comply with local rules or regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.
5. For additional information on the MHP1000 and other McIntosh Products please visit the McIntosh Web Site at www.mcintoshlabs.com.



Connector/Cable/Earpad Information

The connection cables supplied with the MHP1000 Headphones have been designed with a special locking mechanism to prevent the mini plug from disconnecting from the ear cups during normal use. The two connecting cables for the MHP1000 Headphones provide means of connection to different Headphone Jacks on Audio (or Audio/Video) Components either 1/4 inch (6.3mm), refer to figure 1, or 3.5mm (1/8 inch) Stereo Jacks, refer to figure 2.

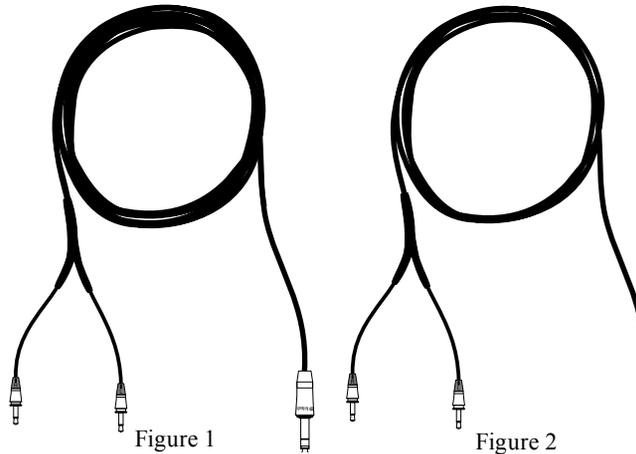


Figure 1

Figure 2

Note: Replacement Connecting Cables for the MHP1000 Headphones are available from the McIntosh Parts Department:

9.8 foot (3 meter) long Connecting Cable with 1/4 inch (6.3mm) Plug Connector, Part No. 17320500.
3.3 foot (1 meter) long Connecting Cable with 3.5mm (1/8 inch) Plug Connector, Part No. 17320400.

Should it become necessary to replace the Ear Pad on the MHP1000 Headphones as a result of damage or if it becomes heavily soiled, a replacement is available. Refer to figure 3 and page 8 on how to remove and install a replacement.

Note: Order a replacement Ear Pad for the MHP1000 Headphones from the McIntosh Parts Department:
Part No. 310544SP.



Figure 3

Introduction

The McIntosh MHP1000 Headphones take advantage of over 45 years of design excellence in McIntosh Loudspeakers. The headphones are designed to be both comfortable for extended listening, while at the same time achieving a high level of performance.

The MHP1000 reproduces music that is transparent and absolutely accurate. The McIntosh Sound is “The Sound of the Music Itself.”

Performance Features

• Tesla Technology

The large 1.6 inch driver uses Tesla Technology¹ with an axially magnetized neodymium ring magnet. This allows for a larger magnet area producing a higher flux density focused in the voice coil gap with increased acoustic output.

• Low Harmonic and Intermodulation Distortion

The Headphones are capable of reproducing the full dynamic range of a symphony orchestra with very low audible distortion of any kind.

• Headphone Comfort

The MHP1000 Headphones Headband and Ear pads are genuine leather, used for durability and flexible qualities for conforming to the individual user. The Headphone Band is adjustable with repeatable detent positions for correct positioning of the Ear Cups.

• McIntosh Custom Connection Cables

MHP1000 are supplied with two connecting cables, one with connections to a 1/4 inch (6.3mm) jack and the other with a 3.5mm (1/8 inch). All of the connectors on the cables are gold plated and there are Left and Right Channel Identification Markings.



¹ Tesla Technology is patented by Beyerdynamic GmbH & Co. KG, Heibronn/Germany.

Adjustments

The MHP1000 is designed for use as “Over the Ear” Headphones. For the best acoustic performance, the positioning of the MHP1000 Headphones on your Head is important.

To aid in the proper positioning of the Headphones, there are eight detented positions in the aluminum yoke on each side. Adjust the Yoke on both sides so each one of your ear lobes are centered within the Ear Pad, the inside of the Headband is touching your head and the Headphones feel comfortable to wear. Refer to figures 4 and 5.



Figure 4

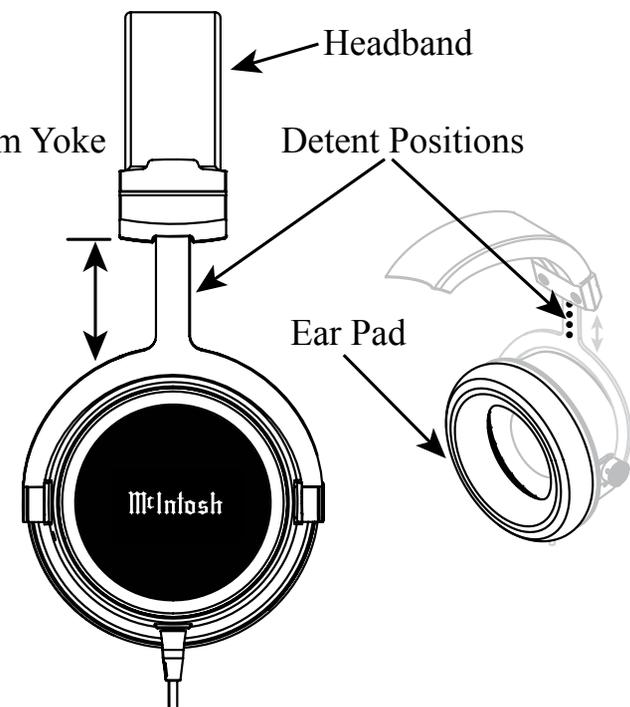
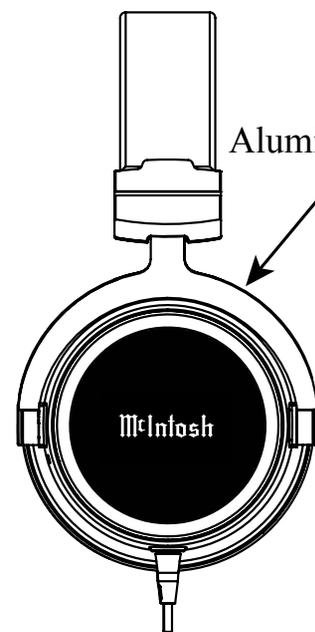


Figure 5

Connections

The MHP1000 Headphones are symmetrical in design and as such there is no channel (Left or Right) identification on the Headphones. The McIntosh Custom Designed Cables supplied with the Headphones have channel identifications molded into the strain relief and color bands on the Mini Plugs. Refer to figure 6.

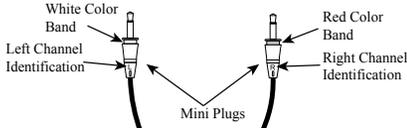


Figure 6

Determine which one of the supplied cables will be connected to the Headphones by the size of the jack located on the Audio (or Audio/Video) Component the Headphones will be connected to, 1/4 inch (6.3mm) Stereo Plug or 3.5mm (1/8 inch) Stereo Mini Plug. Refer to figure 7.

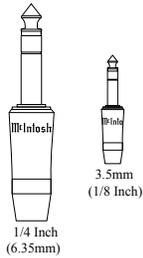


Figure 7

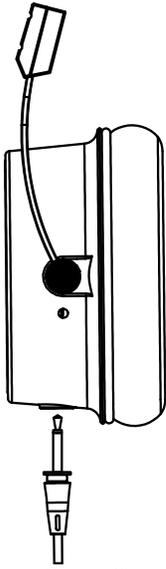


Figure 8

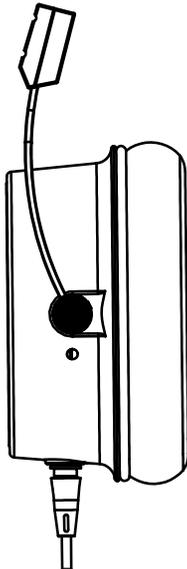


Figure 9

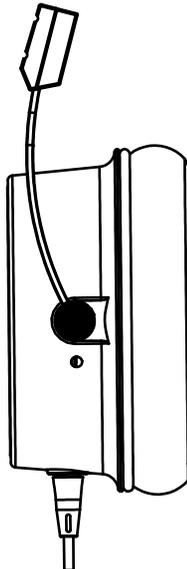


Figure 10

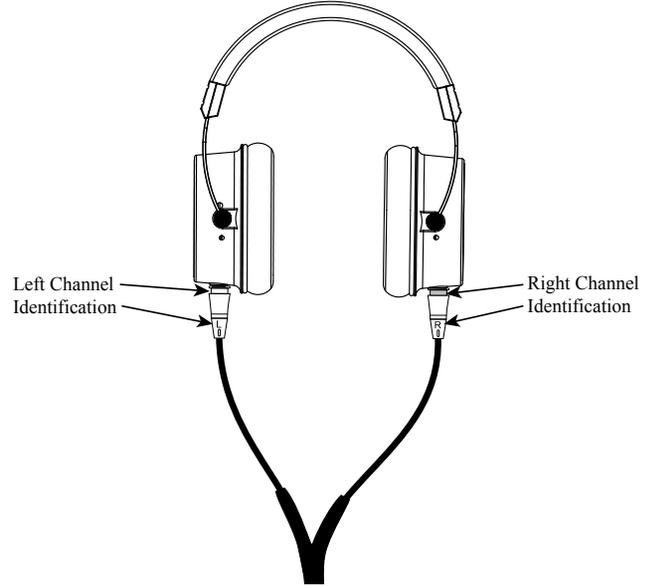


Figure 11

Referring to figures 8 thru 10 and figure 11, insert the Mini Plug ends of the Headphone Cable, Channel Identified (Left and Right), into each of the Ear Cups until a “mechanical click” is heard and felt. This will ensure the Headphone Cable will not easily detach during use.

To remove the Headphone Cable from the Headphones, carefully grasp the Mini plug on the metal portion of the plug and pull it away from the Ear Cups.

Operation

To prevent possible damage to the MHP1000 Headphones and/or your hearing, it is suggested to first lower the volume control setting on the Audio or Audio/Video Component before connecting and putting on the Headphones. Then bring up the volume level to a comfortable listening level.

It is also suggested not to leave the MHP1000 Headphones connected to an Audio or Audio/Video Component when Loudspeakers are being driven by the component in the same room, to prevent possible damage to the Headphones.

When using the Headphones, orient them to match up with your Left and Right Ears (by the Headphone Cable Channel Identification) for the proper acoustic perspective.

Cleaning

The MHP1000 Headphones may be cleaned periodically using a dry cleaning cloth such as a3M™ Scotch-Brite® Microfiber Dusting Cloth.

At no time should ordinary household cleaning products be used to clean the Headphones, as damage will occur.

To remove small foreign particles such as hair from the fabric surface located inside of the Ear Cup, carefully use a Micro Vacuum Cleaner (typically used to clean computer keyboards, etc.).

If the Ear Pads were to become heavily soiled they should be replaced. Refer to page 4 for additional information on ordering replacements and below on how to replace them.

How Replace Ear Cup Pads

To replace the MHP1000 Headphones Ear Cup Pads perform the following steps:

1. Place the rear of the Headphone Ear Cup on a clean soft flat surface. Disconnect the Cable from each of the Ear Cups by carefully grasping the Mini plug on the metal portion of the plug and pull it away from the Ear Cup.

2. Using a Paper Clip, place the edge of the clip into the ridge located between the Ear Cup and the rolled edge of the Ear Pad. Refer to figure 12.

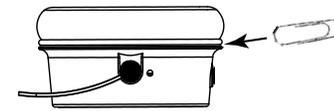


Figure 12

3. While maintaining contact between the Clip and Ear Cup, carefully twist the Clip with out scratching the headphones. The Ear Pad will pop off. Refer to figures 13 and 14.

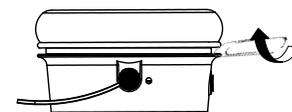


Figure 13

4. Orient the tabs molded into the rear side of the Replacement Ear Pad with the matching openings in the Ear Cup. Then press the Ear Pad into the the Ear Cup until snaps are heard and the entire Pad is secure to the Cup.

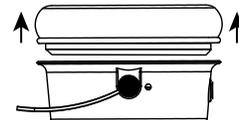


Figure 14





Audio Specifications

System Driver

1.6 inch Full Range Driver using a Tesla Annular Neodymium Magnet

System Enclosure

Closed back with bass port

Impedance

200 ohms Nominal

Frequency Response

5Hz - 20,000Hz

Nominal Sensitivity

97 dB (1mW @500Hz)

Total Harmonic Distortion

Less than 0.1% (1mW @500Hz)

Maximum Sound Level Pressure

122 dB (300mW @500Hz)

Headphone Finish

Soft Touch Textured Surface

Maximum Power Handling

300 mWatts

General Specifications

Dimensions

Ear Cup outside diameter 4 inches (10.2cm)

Ear Cup Depth 2-1/16 inches (5.2cm)

Headband Adjustment Range 1-1/2 inches (3.8cm)

Weight

464 grams net



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The continuous improvement of its products is the policy of McIntosh Laboratory Incorporated who reserve the right to improve design without notice.
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