



M-00

Owners Manual

Serial Number:

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Safety Instructions – Please Read First

CAUTION: To reduce the risk of electrical shock, do not remove the cover. No user serviceable parts are inside; refer for servicing to qualified personnel.

WARNING: To reduce risk of fire or electric shock do not expose this appliance to rain or moisture.



This symbol wherever it appears, alerts you to the presence of un-insulated dangerous voltage inside the enclosure that may be sufficient to constitute a risk of electric



This symbol, wherever it appears alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.

DETAILED SAFETY INSTRUCTIONS:

All the safety and operation instructions should be read before the appliance is operated.

Retain Instructions:

The safety and operating instructions should be retained for future reference.

Heed Warnings:

All warnings on the appliance and in the operating instructions should be adhered to.

Follow Instructions:

All operation and user instructions should be followed.

Water and Moisture:

The appliance should not be used near water (e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool etc.).

Ventilation:

The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

Heat:

The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including other amplifiers) that produce heat.

Power Source:

The appliance should only be connected to a power supply of the type described in the operating instructions or as marked on the appliance.

Grounding and Polarization:

Precautions should be taken so that the grounding or the polarization means of the appliance is not defeated.

Power Cord Protection:

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles and the point where they exit from the appliance.

Cleaning:

The appliance should only be cleaned as recommended by the manufacturer.

Nonuse Periods:

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

Object and Liquid Entry:

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Damage Requiring Service:

The appliance should be serviced by qualified service personnel when;

- The power supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or

The appliance does not appear to operate normally or exhibits a change in performance or, the appliance has been dropped, or the enclosure damaged.

Servicing:

The user should not attempt to service the appliance beyond what is described in the Operating Instructions. All other servicing should be referred to qualified service personnel.

INTRODUCTION:

Thank you for your selection of the M-00. Your studio monitors are a key element in the countless sonic decisions made during audio production. They must provide a transparent and neutral assessment of the sound, so that you have the information you need to deliver exceptional product. The M-00 is a studio's "Swiss Army Knife," capable of superb resolution and great flexibility. Investing time to learn about the product's features and operation will reward you with the best possible performance.

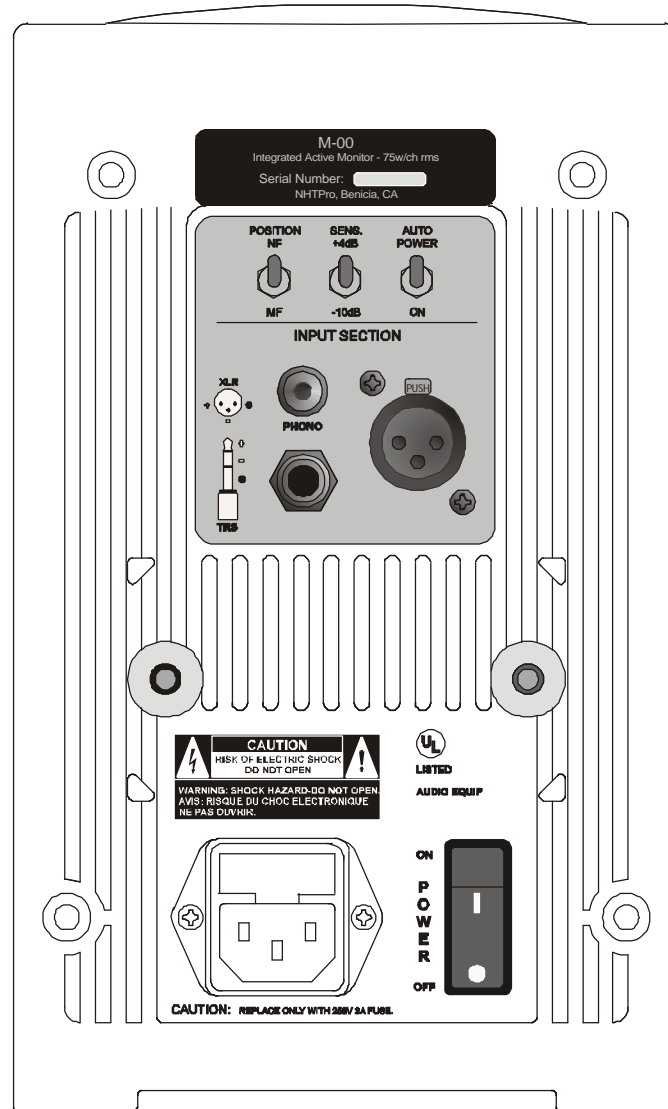


Fig. 1 NHTPro M-00 Rear View

CONNECTING THE SYSTEM:

The M-00 can accept virtually any "line level" signal via the XLR, TRS, or Phono connectors located on the rear panel. There is no mixer in the M-00, and only one source should be physically connected to the speaker at any time. The XLR and TRS inputs are wired in parallel and are fully balanced for low noise operation. These inputs can also accept unbalanced sources. The input jacks are wired according to the AES/IEC standard as shown in Figures 2 and 3 below:

	XLR	TRS
Hot (+)	Pin 2	Tip
Cold (-)	Pin 3	Ring
Ground	Pin 1	Sleeve

Fig. 2 Balanced Input Wiring

	1/4"	Phono
Hot (+)	Tip	Tip
Ground (Shield)	Sleeve	Sleeve

Fig. 3 Unbalanced Input Wiring

USER CONTROLS:

POSITION SWITCH: Close-in (“near-field”) monitoring reduces the impact of room acoustics on the signal, and provides great detail. Mid-field listening reveals aspects of recorded ambience and is more representative of end-use. However, a speaker’s upper frequency power response changes with distance, due to room influences and air absorption. The M-00 provides a switch marked “NF/MF”, that optimizes the speaker’s response for the desired listening distance (Figure 4). Near-field (NF) is defined as 1 meter or less from the monitor to the listener, and this setting gives a gentle reduction in power output above 3 kHz, with a maximum cut of -3 dB at 20 kHz.

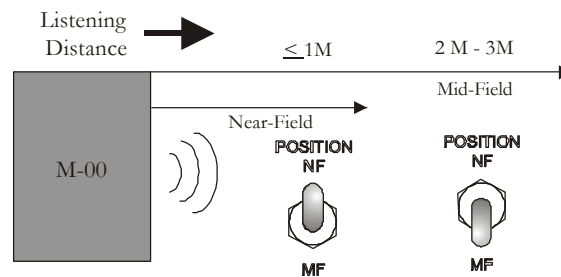


Fig. 4 Position Control Settings Diagram

SENSITIVITY: This function provides the user a choice of two input sensitivities; +4dB and -10dB for noise-free, gain matching with a variety of source components. Typically, the +4dB position is utilized for professional equipment, while the -10dB position is suitable for consumer equipment like CD players, pre-amplifiers and computer soundcards. These exact signal levels apply to the balanced inputs. A slightly higher overall gain is provided via the unbalanced Phono(RCA) input.

AUTO POWER SWITCH:

When this switch is set to “On”, the Auto Power circuit senses the incoming signal and activates the internal amplifier, eliminating the need to turn the M-00 on and off manually. If no input signal is present for approximately 10 minutes, the amplifier goes into a low-power standby mode until an input signal is received. The LED on the front of the speaker will turn red to indicate the stand-by mode, changing to green when power is restored. To use the Auto Power function, the main AC Power Switch must be left in the “On” position. If manual operation of the AC Power Switch is desired, simply leave the AUTO POWER SWITCH set to “Off”.

MONITOR PLACEMENT:

The M-00 is intended to provide consistent performance over a wide range of placement situations. This is accomplished through the use of electrical controls, wide dispersion drivers and carefully chosen crossover characteristics. Never the less, it is always worth investing time and effort experimenting with optimum loudspeaker placement. The M-00’s should be set up equidistant from the listening position; the left speaker and right speaker should be at the same relative positions with respect to the primary listening area. This is

important in order to hear a proper stereo soundstage. A good starting point is to create an equilateral triangle with the listener at the apex. Ideally, the tweeter height should be on axis with your ears. Also, remember that nearby reflective surfaces can alter impulse response and blur imaging and tonality. See fig. 5 for some additional guidelines.

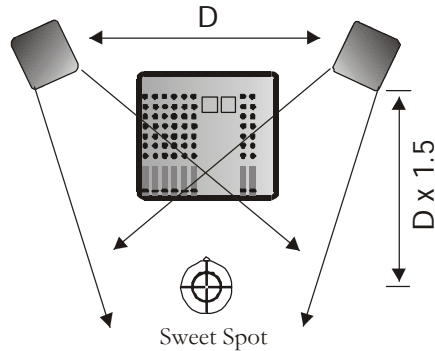


Fig. 5 Ideal Monitor Placement

WALL MOUNTING THE M-00:

The M-00's feature 1/4"-20 threaded inserts (see Figure 1) designed to work with OmniMount's 50/53 Series bracket systems. The threaded insert hole depth is 9mm, 11/32" or 0.354" deep and when using the OmniMount 50/53 series, use a 1/4"-20 pan head bolt that is no longer than 1/2". As the enclosure is made of an aluminum alloy, it should be noted the metal is soft and it is possible to strip the threads. Make sure the bolt is secure, but don't over tighten, when mounting the clamp assembly to the speaker. To find the location of the nearest OmniMount Dealer, contact OmniMount Systems @ 602-829-8000 or visit OmniMount Systems online at www.omnimount.com.

USING MULTIPLE M-00'S:

For appropriate commercial uses, as many as 10 M-00's per channel can be daisy-chained by alternately utilizing the bridged XLR and the TRS jacks. The exact number of M-00's that can be daisy-chained together depends on the low impedance drive capability of the mixer or distribution amplifier. Please refer to the table in Fig. 6 to make your determination. Fig. 7 shows the connection options.

# of M-00's	2	3	4	5	6	7	8	9	10
Impedance (Kohms)	16.0	10.7	8.0	6.4	5.3	4.6	4.0	3.6	3.2

Fig. 6 M-00 Impedance Table

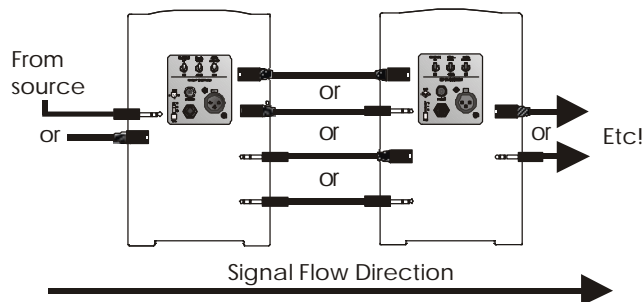


Fig. 7 Daisy Chain Connection Diagram

SYSTEM MAINTENANCE:

Except for the occasional flattering comment, your M-00's need no regular maintenance. Never attempt to clean the M-00's driver units except for very light feather dusting. The M-00 cabinet can be cleaned using a moist soft cotton cloth. Avoid silicone or oil-based cleaners or treatments.

SYSTEM OPERATION:

Although the M-00's were designed to handle a wide range of listening levels, every speaker has its limits. Harsh breakup at extremely high levels is an indication that your monitors have exceeded their output limits. Excessive equalization can worsen the problem. Protect your ears and use common sense, if you hear continuous distortion or feel heat emanating from the drivers, reduce the gain. Speaker damage most often occurs from sustained high volume levels, not from transient sounds or brief musical peaks.

NEED HELP?

Technical Support can be reached several ways:

Telephone toll free: 800-NHT-9993 (648-9993),
Email us at: tech@nhtpro.com,
Fax us at: 707-748-5945
Write us at: NHTPro
527 Stone Rd.
Benicia, CA 94510.

SPECIFICATIONS:

Type: Integrated, self-powered near/midfield monitor.
Configuration: 2-way acoustic suspension.
Woofers: 4.5" treated paper.
Tweeter: 1" soft fabric dome.
Magnetic Shielding: Full.

Amplifier Power: 75W (continuous rms), 150W (100ms peak).
Peak Acoustical Power: 111dB SPL (100 ms pink noise @ 1M).
Residual hum/noise: <20dB SPL (A weighted @1M)
THD @ 90dB SPL: <1.0% (100Hz ~10kHz @ 1M)
Response +/-2dB: 98Hz ~ 20kHz@1M, 93Hz ~20kHz@2M.(1/3 oct. swept noise)
6dB LF Cutoff: 80Hz (in-room response).
Monitor Dim./Wgt: 9"h x 5.7"w x 7.3"d/14lbs.
Enclosure Materials: Cast Aluminum/Zinc alloy body, Glass-filled ABS baffle.

Features/Controls

Input Connectors: XLR, TRS, Phono.
Input Sensitivity: 10dB, +4dB.
Listening Position: near-field/mid-field.
Auto Power: On, Off.
Master Power: On, Off.