



AMPLIFICATION

Congratulations on your purchase of a Baer Amplification product. This product was designed and manufactured to exacting standards and should provide you with many years of trouble free service. The information contained in this manual is designed to help you get the most out of your new equipment and help get you on the road to better tone.

Our Philosophy On Tone

At Baer Amplification, we believe that it's the countless hours of practice, the touch of your fingers upon the instrument and your passion for playing that truly makes up your signature sound. Our amplification products are specifically designed and crafted to bring out the true voice of your instrument and provide you with all the power and versatility you need to handle any situation. Plug in and play!

ML Series Speaker Cabinets

The ML (mid-loaded) Series bass cabinets were designed from the ground up to be something different in the world of bass guitar amplification. We set out with one clear goal in mind, to create the finest bass cabinets on the market, capable of accurately reproducing the full frequency range of your instrument, all without the use of a traditional tweeter or horn.

You see, decades ago, the idea to put a high frequency horn into a bass guitar cabinet was quite revolutionary and resulted in a dramatic increase in fidelity over the previous bass speakers of that era. It's a design formula that has stuck with the bass world ever since. The problem is, not all bass players like the sound of a horn in their cabinets. For these players, there have always been a very limited number of truly high fidelity options... until now.

Our extended range 6" drivers provide both better midrange dispersion and wider frequency response than woofer-only cabinets, all with a top end response that delivers more body and punch than the typical bass cabinet tweeter. These are no compromise cabinets, computer designed and constructed from the highest quality components available. All cabinets are fabricated using state of the art CNC routers with rabbet and dado construction, then loaded with pro-audio grade neodymium woofers and full, 2-way crossovers. While they were designed to reproduce the natural tone of your instrument with minimal coloration, the ML Series speaker cabinets still manage to have a personality all their own!



- WARNING -



For safe operation, do not attempt to use this equipment until you have read and thoroughly understand all the information contained within this manual. If you are unsure as to the safe operation of this equipment, contact Baer Amplification before using this product.

- ▶ *Do not expose speaker cabinets to water, rain, moisture, or extreme humidity.*
- ▶ *Do not place liquids on top of the speaker cabinet. Should your drivers become wet for any reason, allow the drivers to fully air dry before any further use.*
- ▶ *Never use amplification equipment when lightning is present in your location.*
- ▶ *Do not use near sources of heat, areas of extreme ambient temperatures, or in direct sunlight.*
- ▶ *Always make sure that the amplifier is connected to your speaker cabinet(s) before powering on the unit.*
- ▶ *When using an all tube amplifier, insure that the correct impedance has first been set on the amplifier for the speaker configuration you are using. Failure to do so could result in severe damage to your amplifier!*
- ▶ *Do not use your speaker cabinet if it has been dropped, or damaged in any way. If the cabinet is not acting normal for any reason, turn off your amplifier and refer the cabinet to qualified service personnel.*
- ▶ *Never connect more than one amplifier at once to the same speaker cabinet. Doing so will cause severe damage to your equipment!*
- ▶ *There are no user serviceable parts inside. Do not attempt to work on your equipment yourself. Refer service to qualified personnel only.*
- ▶ *The use of Speakon connectors is highly recommended.*



- WARNING -



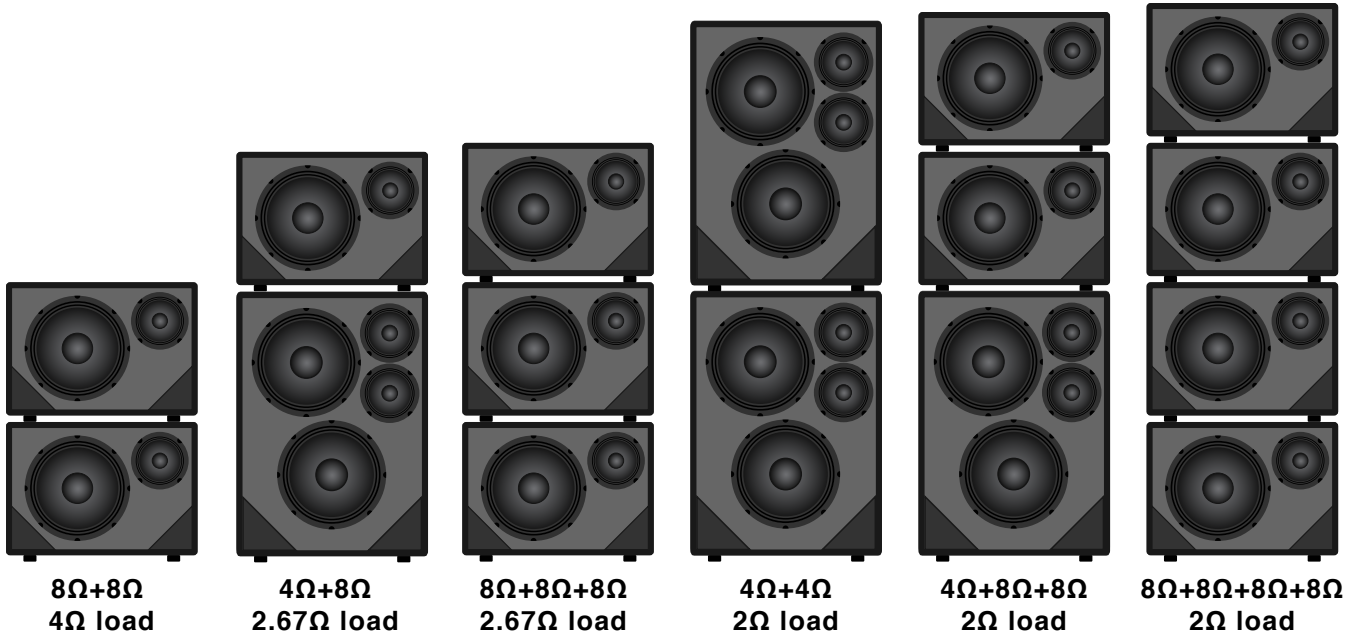
As a musician, your hearing is your most precious resource. Your amplification system is capable of producing extremely high sound levels and should be used only while wearing adequate hearing protection. Repeated exposure to the sound levels typically present while performing live music, without the use of hearing protection, can result in permanent hearing loss!



- WARNING -



Be sure that you fully understand the total impedance load of the speaker system that you will be using before connecting any speaker cabinets to your amplifier. Exceeding the minimum load limit can cause severe damage to the amplifier and void your warranty!



ALL ML SERIES SPEAKERS FEATURE:

- Lightweight poplar plywood construction utilizing rabbet and dado construction
- Extensive bracing to reduce panel vibration and unwanted cabinet resonances
- Baltic birch speaker baffles for extra strength and rigidity
- Custom designed neodymium woofers w/ 3" voice coils
- High quality 2-way crossovers for maximum driver efficiency
- Extended range 6" neodymium mid drivers
- Separate midrange enclosures
- Speakon 1/4" combination input jacks
- Heavy weight vinyl coverings
- Powder coated steel grills
- Heavy duty rubber isolation feet

CARE OF YOUR SPEAKER CABINETS

Under normal playing situations, your speaker cabinet will need very little in the way of care, but here are a few general suggestions that should keep your speakers operating in peak condition.

POWERING YOUR AMPLIFIER ON AND OFF - To help protect your speaker cabinets against possible damage, make it a habit to *always* turn the GAIN and MASTER VOLUME on your amplifier to their minimum positions (or use your amp's MUTE function) before powering the amplifier on or off. The same rule applies when connecting, or disconnecting your instrument.

BREAKING IN YOUR SPEAKER CABINET - While this is often a subject of some debate amongst bass players, experience with our drivers tells us that these drivers definitely go through a breaking in period, where the driver's cloth surround will "loosen up" during the first hours of use. To protect your drivers from damage and help your speaker cabinet to eventually sound its best, we recommend that you do not exceed moderate levels of volume for at least 4 to 6 hours of continuous use. At this point, your driver's surround will have become more flexible and you will usually notice an increase in the low end response of your cabinet.

SPEAKER RULE #1 - Don't ask more from your speakers than they are capable of delivering. If you hear your speakers distorting, ***turn down the volume!***

CLEANING YOUR SPEAKER CABINET - Under normal use, your speaker cabinet will not require any special care. Should you accidentally spill something on the cabinet, immediately wipe the spill with a clean, slightly damp towel. ***Do not use harsh chemical cleaning solvents on your cabinet's covering.***

SPEAKER COVERS - We recommend the use of a good quality speaker cover to protect your cabinet from damage during transport. Speaker covers also help keep dirt and dust out of your drivers when not in use and will help keep your cabinet looking like new for many years.

Specification	ML112	ML212	ML115
Driver Complement	1- 12" neodymium driver w/ 3" voice coil 1- 6" extended range neo mid driver	2- 12" neodymium driver w/ 3" voice coil 2- 6" extended range neo mid driver	1- 15" neodymium driver w/ 3" voice coil 1- 6" extended range neo mid driver
Sensitivity	98dB	101dB	98dB
Power Rating *	350 watts	700 watts	500 watts
Impedance	8 ohms	4 ohms	8 ohms
Frequency Response (-3dB)	55Hz - 7kHz	55Hz - 7kHz	50Hz - 7kHz
Usable Frequency Range (-10dB)	40Hz - 9kHz	40Hz - 9kHz	35Hz - 9kHz
Weight (approximate)	37lbs.	70lbs	TBD
Dimensions (with installed feet)	23.25"w x 16.75"h x 16.875"d	23.25"w x 31.5"h x 16.875"d	23.25"w x 25.75"h x 16.875"d

****A Word About Our Speaker Cabinet Power Ratings***

When talking about power ratings, there are two important factors to consider, the driver's thermal rating and the actual performance of the drivers within the enclosure during real world use. Driver thermal ratings are based on the amount of heat the driver's voice coil can sustain before actual failure. They do not however, represent the amount of power the driver can handle before exceeding maximum excursion (Xmax) at any given frequency. The power level at which your speaker cabinet can still produce the lowest frequencies, before the drivers exceed Xmax and distort, will usually be less than the thermal rating and is dependent on many factors, including technique and EQ settings. For example: A 5 string bassist with an aggressive attack and boosted bass frequencies, will place a much greater demand on the drivers than a 4 string bassist that leaves the EQ flat, and plays with a lighter touch.

Because so many variables exist, we no longer use driver thermal ratings and instead determine our power ratings by combining driver specs with computer based cabinet modeling and live, on stage testing to come up with a rating we feel is a good reference for the power level that you can expect your cabinet to handle.

Be sure you are purchasing a speaker system with enough capacity to handle the full dynamics of your playing style and reach your desired volume levels!

Baer Amplification Limited Warranty Policy

Baer Amplification products are covered under this limited warranty policy against defects in materials and workmanship. This policy shall apply only to products purchased in the USA and Canada. For products purchased outside the USA or Canada, please contact the dealer in your country for information about the warranty and obtaining service. This limited warranty is fully transferable for the first ninety (90) days from the date listed on the original sales receipt or invoice, provided that the original sales receipt or invoice is transferred to the new owner.

Length of warranty varies by product and are listed below:

- **Amplifiers** - Amplification products are covered under warranty for a period of three (3) years.
- **Tubes** - Tubes shall be covered for a period of six (6) months.
- **Speaker Cabinets** - Speaker cabinets are covered under warranty for a period of two (2) years.
- **Accessories** - Accessory products are covered under warranty for a period of ninety (90) days.

Warranty Coverage - Baer Amplification LLC reserves the right to repair or replaced defective products or components at their own discretion. Warranty does not cover normal wear and tear, or damage to product coverings or finishes. Warranty shall not apply to products in need of repair deemed by Baer Amplification LLC to be the direct result of misuse, or neglect by the user. Warranty is considered void on any product that has been serviced, altered or modified in any way by personnel not authorized by Baer Amplification LLC. Baer Amplification LLC assumes no liability for any property damage that may occur as a result of failure of this product.

To Obtain Warranty Service - Please contact Baer Amplification before sending any equipment to us for repairs. You must be able to provide proof of purchase by providing us with a copy of your original sales receipt. You will then receive a return authorization number which must be included with the product being returned. All shipping charges shall be paid by the purchaser. When possible, return equipment packed in the original shipping materials. Baer Amplification LLC is not responsible for any damage that may occur during shipping. Any claim for damages that happen as a result of shipping, must be filed by the purchaser directly with your shipping carrier.

Warranty Transfer Policy - Your product's original factory warranty is fully transferable for the first ninety (90) days from the date listed on the original sales receipt, provided the original sales receipt is transferred to the new owner and the transfer of ownership is registered with Baer Amplification. Please download and complete a Transfer Of Ownership Form and return it to Baer Amplification, along with a copy of the original sales receipt, or invoice. ***You must register the transfer of ownership with Baer Amplification within the first 90 days for the warranty to be transferred to the new owner.***

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