

# **PRO NEO**





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### IMPORTANT SAFETY INSTRUCTIONS

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. Only use attachments/accessories specified by the manufacturer.
10. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.
11. This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases or beer glasses, shall be placed on the apparatus.

Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible noise level exposures shown in the following chart.

According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to prevent permanent hearing loss if exposure is in excess of the limits set forth here:

Duration, per day in hours	Sound Level dBA, Slow Response	Typical Example
8	90	Duo in small club
6	92	
4	95	Subway Train
3	97	
2	100	Very loud classical music
1.5	102	
1	105	The boss screaming at his minions about manual deadlines
0.5	110	
0.25 or less	115	Loudest parts at a rock concert



### Introduction

Welcome to the world of Ampeg. Whether this is your first experience with Ampeg or you're a well-seasoned player who's been around the globe a few times with our gear, you are taking part in a piece of musical history. From here on out, nothing else will sound the same... everything else will pale in comparison. You are one of the lucky few to take part in a new chapter of an American legacy. Ampeg has come home! Each Pro Neo Series cabinet is designed and assembled right here in the U.S.A. We've heard from bass players around the globe about their dedication and commitment to Ampeg and the Pro Neo Series is made specifically for those players. Just our way of saying thank you and letting you know that we heard you loud and clear.

Ampeg is the standard by which all others are measured. We've been pounding bass player's chests and audience's booties for over 60 years now and we're not going to slow down anytime soon. From our early days of building "amplified pegs" for upright players to building the world famous, stadium rattling SVT, Ampeg has been *the* choice for bassists, from touring professionals to weekend warriors and everyone in between. We were the first ones on the block listening and building gear for bass players. Heck, even our company's founding fathers were working, gigging players. When they weren't tinkering around the shop on new ideas, they were out in the clubs of New York earning their living. Not much has changed since then.

The average length of a hit song is 3 minutes and 40 seconds. We have been a part of most of those hits for over 60 years. Now that you own a piece of Ampeg history, we want to be a part of your next hit.

On a personal note, the team at Ampeg would sincerely like to thank you for your support and dedication to our mission in bringing you some of the best amps and cabs the world has known.

Best of luck in all of your musical endeavors!

Sincerely,

The dedicated team at Ampeg



**Correct disposal of this product:** This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2002/96/EC) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.



## Eminence Speakers

There are some relationships that go hand in hand in the music business. When it comes to building amplifiers and cabinets, nothing is more suited than the relation between Ampeg and Eminence Speakers. Ampeg commissioned Eminence Speakers decades ago to build one of the first 18" speakers used in an Ampeg amplifier. We've been calling on Eminence ever since to custom build speakers used in some of our most famous models. From the SVT-410HLF and stadium rattling SVT-810E to the latest Heritage and Pro Neo Series, Eminence is at the heart and soul of our most loved cabinets! It's no secret what goes into building a great cabinet: innovative designs, superb materials and world class components.



## Impedance: The Golden Rule

When it comes to tube amps, be sure that the output impedance of the amplifier matches the total impedance of the speaker cabinet or cabinets.

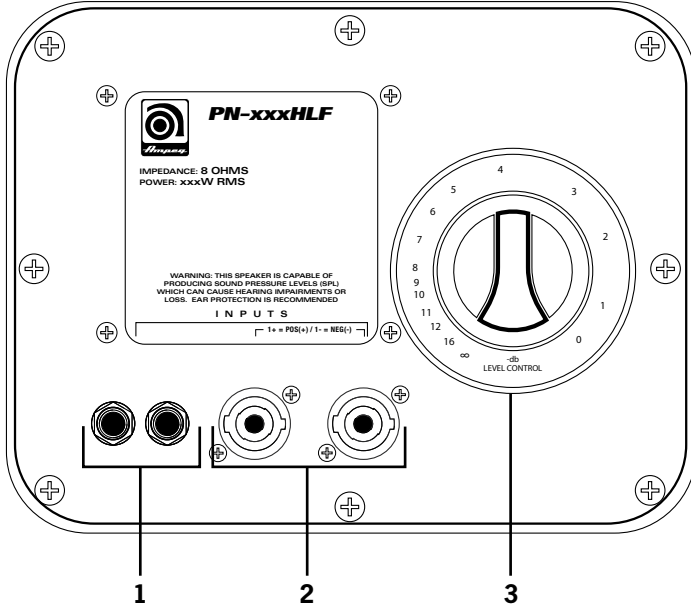
**Pro Neo Series cabinets are coated with a durable paint and splatter finish. Clean with a dry lint-free cloth. Never spray cleaning agents on the Pro Neo cabinets. Avoid abrasive cleansers which would damage the finish.**

*Ampeg continually develops new products and improves upon existing ones. For this reason, the specifications and information in this manual are subject to change without notice.*

*"Ampeg" is a registered trademark of LOUD Technologies Inc. All other brand names mentioned are trademarks or registered trademarks of their respective holders and are hereby acknowledged.*

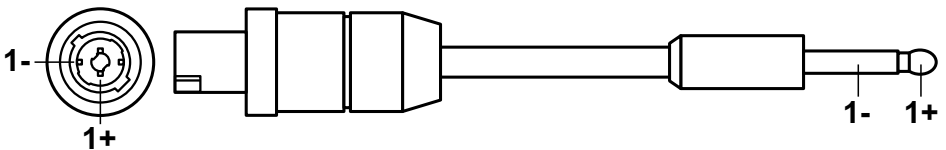


**Peo Neo Jackplate**



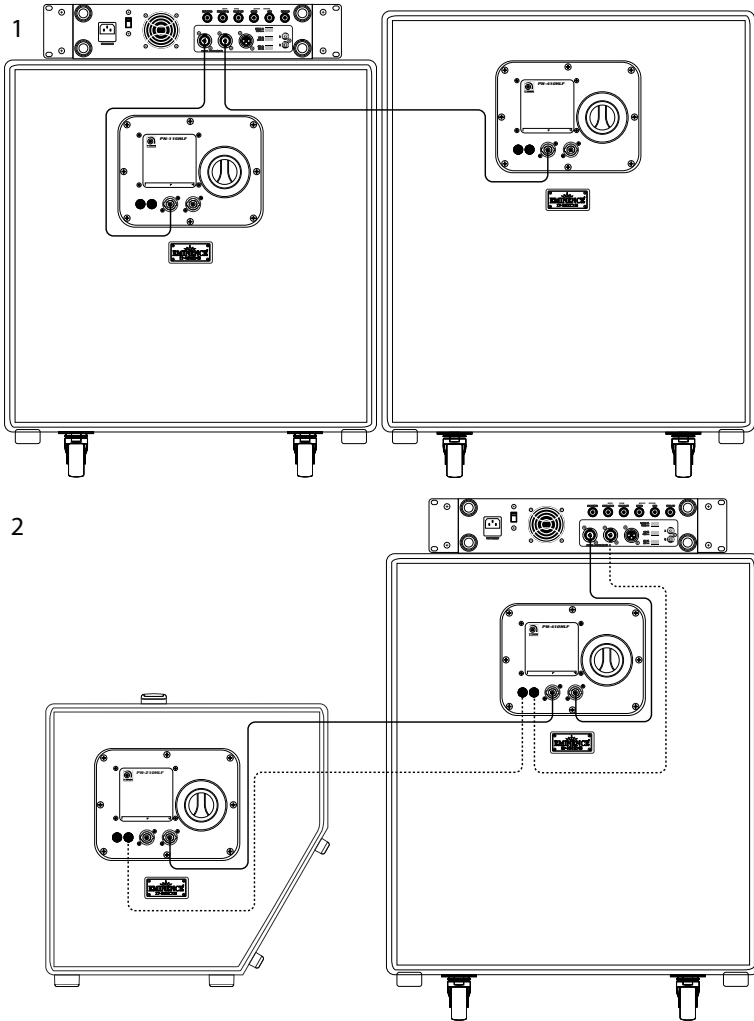
- 1: 1/4" Input / Output Jacks**
- 2: Speakon® Input / Output Jacks**
- 3: High Frequency Horn Level Control**

**Speakon® to 1/4" Wiring Diagram:**





### Pro Neo Suggested Hookup Diagrams



In the first example, a speaker cable with Speakon® ends connects from one speaker output of the amplifier to the speaker input of an Ampeg Pro Neo PN-115HLF cabinet. Additionally, an Ampeg Pro Neo PN-410HLF cabinet is connected from the remaining speaker output of the amplifier to the cabinet's speaker input using speaker cable with Speakon® ends.

The second example is not as common, but it also works. Plus, it is a great way to daisy-chain multiple cabinets. A speaker cable with 1/4" or Speakon® ends is connected from one speaker output of the amplifier to the speaker input of the Ampeg Pro Neo PN-410HLF cabinet. A Pro Neo PN-210HLF cabinet is connected by attaching another speaker cable from an open jack (thru) of the PN-410HLF to the input jack of the PN-210HLF. Any variation and any quantity of Ampeg Pro Neo Series cabinets may be daisy-chained this way. This is just one example.

**WARNING:** Always use good quality (non-shielded) speaker cables. Never use (shielded) instrument cables to connect speakers to an amplifier. Also, do not use both cable routes listed in example #2 above. Use one route or the other, but not both!

**PRO NEO TECHNICAL SPECIFICATIONS**

Type	PN-115HLF: 1x15 Bass Enclosure PN-210HLF: 2x10 Bass Enclosure PN-410HLF: 4x10 Bass Enclosure
Frequency Response (+/-3 dB)	PN-115HLF: 48 Hz – 10 kHz PN-210HLF: 70 Hz – 10 kHz PN-410HLF: 70 Hz – 10 kHz
Usable Low Frequency (-10 dB)	PN-115HLF: 28 Hz PN-210HLF: 40 Hz PN-410HLF: 38 Hz
RMS Power Handling	PN-115HLF: 575 watts PN-210HLF: 550 watts PN-410HLF: 850 watts
Impedance	All: 8 ohms
Sensitivity	PN-115HLF: 98 dB SPL 1w/1m PN-210HLF: 97 dB SPL 1w/1m PN-410HLF: 100 dB SPL 1w/1m
Maximum SPL	PN-115HLF: 125 dB PN-210HLF: 124 dB PN-410HLF: 127 dB
Components	PN-115HLF: 1 Custom Designed 400 watt 15" speaker, 1 Eminence HF driver PN-210HLF: 2 Custom Designed 200 watt 10" speakers, 1 Eminence HF driver PN-410HLF: 4 Custom Designed 200 watt 10" speakers, 1 Eminence HF driver
Size (H x W x D)	PN-115HLF: 23.5 in/597 mm (with feet) x 22.8 in/578 mm x 17.5 in/445 mm PN-210HLF: 18.0 in/456 mm (with feet) x 22.8 in/578 mm x 17.3 in/439 mm PN-410HLF: 26.5 in/673 mm (with feet) x 22.8 in/578 mm x 17.5 in/445 mm
Weight	PN-115HLF: 59 lb/26.8 kg (approximately) PN-210HLF: 44 lb/20.0 kg (approximately) PN-410HLF: 64 lb/29.0 kg (approximately)

Speakon® is a registered TM of Neutrik AG

Eminence® is a registered TM

**Service Information**

If you are having a problem with your Pro Neo cabinet, you can go to our website ([www.amepeg.com](http://www.amepeg.com)) and click on Support for service information, or call Technical Support at 1-800-898-3211 Monday-Friday during normal business hours, PST, to receive assistance. If you are outside of the U.S., contact your local distributor for technical support and service.

# PRO MEQ

