NEMESIS NC-200A

OPERATION MANUAL

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Congratulations on your purchase of your new NEMESIS Combo Amplifier system. This manual will cover all (4) versions of the NEMESIS Combos. These include the NC-210,NC-410,NC-112,and NC-115. All of these models currently use the NC-200 Power Amplifier System.

All of us at the NEMESIS factory are totally committed to providing you with the very best Bass Guitar systems in their class. We hand build them all right here in the USA.

Our goal is to offer to you, both the outstanding performance quality of a top notch professional Bass Amplification system and a reasonable price point. Our goal is to make the Nemesis line such a great value that you really can't afford not to own one. The NEMESIS operation is solely owned by EDEN ELECTRONICS, one of the very best Manufacturers of Fine Bass Amplification equipment in the world .

The NEMESIS products group encompasses an entire array of new technologies, fabrication techniques, and materials. It is in fact a revolution in Bass Equipment and manufacturing technology. We have taken FET power device technology, computer optimized circuit design and years of research and testing to evolve our new electronics package (the NC-200). This is a great step forward in performance, reliability, and value. We have spent years researching new materials and manufacturing techniques that are both optimum for acoustic enclosures and friendly to the environment.

We have developed a new and truly revolutionary method of making loud speaker enclosures. Our new production process allows us to use recycled wood and paper products in a unique way that is very

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environmentally friendly. The process also gives us a more integral Bass enclosure that is much stronger than traditional plywood boxes. The new enclosure is equal or better sounding than the traditional enclosures, has better structural quality and weighs less than older designs. Additionally it helps the environment and reduces our total cost of manufacturing and ultimately your cost of purchase.

The NEMESIS Combo line is the result of our attempt to combine High performance and compact size together with light weight construction and a great value for the working Bass player. A skilled craftsman needs good quality tools that won't let him down on the job, and so does a good musician.

GENERAL FEATURES

Your Nemesis Combo has all the following features; a 200 Watt FET power amplifier, Passive thermal cooling, Automatic Thermal protection circuit ,a Compressor Limiter with In/Out switch, Enhance Control, Parameteric Tone control with In/Out switch, 3 Band Tone control, Speaker On/Off switch, Headphones, Aux speaker output, full D.I. with ground lift switch and Level control, Effect Loop, powerful 2" Voice Coil Loud speakers, and a separate tuner output jack. Your unit may be equipped with small plastic plugs that can be inserted into the unused jacks in the unit. These are used to reduce the noise of air rushing out of these jacks under high volume playing conditions. They are easy to remove as well as insert.

SET UP AND GETTING STARTED

To turn on your Nemesis Combo you will need to do a few things the first time . If your unit was shipped directly to you from a dealer check carefully for hidden freight damage before you attempt to operate the unit. If you find any damage, notify your dealer and the freight line immediately. If you picked up your unit from your dealer it was probably set up and tested out already. Just in case we suggest that you go through the set up now.

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INITIAL SET UP

Before you plug in your unit for the first time please do the following things. First turn the power switch to the off position. Then set the Master Volume control to (0). Set the tone controls to the center position or (0). Turn the Enhance control to the Minimum position. Set the parametric controls to the center (0). Set the Gain control to approximately the 9:00 position to start with. Set the compressor in the (On) position and set the Parametric switch in the (Off) position. On the back of the unit set the Internal Speaker switch in the (ON) position. This will set your amplifier up flat and with the auto compressor operating. Now plug in the power cord to the inlet on the back of the unit. Use only a safe grounded receptacle for proper operation at 120 V. A.C. 60Hz.

Now you can plug in your Bass and turn on the unit. Turn the master up until you reach a comfortable sound level and we will go through the tone controls and other features.

OPERATION and DESCRIPTION of CONTROLS

INPUT JACK

The input Jack will accept most Bass Guitar output levels. If you have a dual battery Bass with output in excess of +10dBm you probably will have to turn the output of your Bass down to avoid clipping the input. The jack should except most passive and active Basses.

GAIN CONTROL/ and-12db pull to pad

This control regulates the first amplification stage and controls the overall system gain. The compressor automatically tracks the input level and follows the gain. You control the compressor threshold by setting the gain lower or higher, depending on how much compression effect you want. The compressor is provided with a bypass to defeat the compressor operation. Some of the new dual battery Bass Guitars have unusually high output levels. If you own one of these Basses it mat be necessary to engage the -12dB Pad in order to properly match correct signal levels with this unit. The pad is engaged by pulling up on the Gain control knob.

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ACTIVE LIGHT and COMPRESSOR ON/OFF SWITCH

This light indicates the best spot to operate the amplifier at. When the compressor is engaged the light indicates compressor operation. When the compressor is bypassed it indicates the sweet spot for operating the amplifier. The compressor on/off switch engages and disengages the Compressor.

ENHANCE CONTROL

This is a great sounding feature seldom fund on amplifiers at this price level. The Enhance control is a complex tone Pre-shape that is set up to optimize your bass sound. It is designed to boost the low frequencies and upper midrange while at the same time reducing the midrange frequencies. The Enhance control is a quick and easy way to a quality bass tone . To try it out, set all the other tone controls to flat. Then rotate the Enhance control to around 9:00 to 12:00 for the full effect. This range is typically the best area for operation. The Enhance can also be used with the other tone controls.

QUASI-PARAMETRIC TONE CONTROL

The single stage Quasi -Parametric control lets you dial into a specific frequency range and boost or cut just that small part of the audio band. The level control in the filter allows you to select the amount of boost or the amount of cut you want . The Frequency control is tunable from 40Hz to 10 KHz. You can create many complex tone changes with this control. The on/off switch allows you to compare your tone before and after the changes you have selected. You can also bypass the Parametric control section if you do not wish to use it.

MAIN TONE CONTROL 3 BAND

The main tone control section is a 3 band tone equalizer. The audio

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spectrum is divided into three bands, the Bass, Mid, and Treble. The Bass and Treble are shelving type filters and the Mid is a bandpass filter. These controls give you broad general control of the shaping of your tone. This is different than the more narrow control offered by the Semi-Parametric.

MASTER LEVEL CONTROL

This control sets the final output level to the amplifier. For general operation the control will normally be set at between 9:00 and 1:00.

HEADPHONE OUTPUT/ Aux. line out

This jack provides the output for headphones for practicing. If you switch off the internal speaker you can use your amplifier to rehearse with just the headphones. It can also be used as a Aux. line level output.

D.C. INDICATOR

This indicates that the D.C. power supplies are operating properly and the amplifier is turned on.

BACK PANEL FEATURES

A.C. POWER INLET/ FUSE

This is where you plug in you A.C. line cord . This is also where the fuse is located. For your unit you need a 3 Amp. 5x20 MM slow blow type. In Europe use a 1.5 Amp or 1.6 Amp fuse slow blow and the appropriate AC connector for the country you are in. Make certain that your unit is set for the correct voltage of the country you are in.

INTERNAL THERMAL PROTECTION SYSTEM

Your unit is fully protected by an automatic thermal safety system that meets the UL-813 standard for safety . If your unit it played to hard and to long and it accumulates to much heat load. If this happens your unit may temporarily go into the thermal standby mode. This is a normal operation of the safety system. In the stand by mode the unit will remain

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operating all the pilot lights will stay on, but the audio output to the speaker will be shut down until the unit reaches a safe operating temperature. The D.I. will continue to operate during the thermal standby. Your unit will come back on automatically in 1 to 5 minuets and operate normally.

HEAT SINK (chassis)

Your Nemesis unit is designed so that the outside panel (chassis) is also the heat sink for the entire unit.
PLEASE EXPECT THIS UNIT TO RUN HOT TO THE TOUCH.
This means that the panel will always be from warm to quite HOT to the human touch after playing for a while. This is normal and is totally within the design parameters for the type of output devices that are used in this unit. The thermal safety system will shut down the Audio Amplifier output if the internal temperature rises above 190 degrees F.

HEAVY DUTY PROFESSIONAL USE

The Nemesis Combos are primarily designed for small clubs and medium venues. The Nemesis Combos run well above normal combo loudness levels. However,it is not designed to replace or to perform as loudly as the more powerful Eden separate systems. If you find that you are pushing your amplifier so hard that you are encountering thermal standby and shut down on more than a very occasional basis. You are pushing the unit well above the intended operating parameters.

Your Nemesis (A) version is fitted with an additional external heat sink to improve cooling at very high power levels and extreme playing situations. With this extra cooling configuration and the automatic internal audio limiters you can play your Nemesis combo at unreasonable levels almost indefinitely.

EXTERNAL SPEAKER OUTPUT

This jack allows you to use an external extention cabinet. The jack is

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configured as a series connection point. You can use any impedance speaker in this jack without causing any problems for the amplifier. Best recommendations would be for a 2 Ohm or 4 Ohm extention speaker. Leave the internal speaker switch in the on possition when using the extention cabinets.

INTERNAL SPEAKER ON / OFF

This switch turns off the internal loudspeaker and any extention cabinets. Make certain that this switch is in the on position if you want to play your unit and hear it on the internal loudspeaker.

EFFECTS LOOP

This is a line level output and return. This is the place to put your line level effects. You can also use the Effect Send as an Aux. line level output. The circuit breaks on the return jack.

DIRECT OUTPUT

The D.I. output is used to connect your unit to P.A. Systems and recording consoles. The level control sets the amount of signal level that appears at the output of the Mic. connector. The ground lift is used to reduce noise when plugging in to another system. Switch the ground lift back and forth to determine the lowest noise/hum position. The output is adjustable from Mice. level to line level. This is a fully balanced output.

TUNER OUTPUT

This is the place to plug in your tuner. You can also use this jack as an additional Aux. output. This is a line level send.

SETTING UP YOUR OWN SOUND

Start by setting the pre-amplifier tone controls to the flat position. Set the Enhance control to Min. Set the Master volume control to (0). Plug in your Bass and turn on your unit. Set the Gain control to around 10:00

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and move the master up to around 11:00 or to a comfortable listening level.

Try the Enhance control first. Rotate it while playing. You may find that this gives you the sound you are looking for, using just this control.

Next try the main 3 band control . Start with the Treble control and work down to the Midrange control then adjust the Bass control. Be careful about using large boosts particularly in the Bass range. This can cause increased distortion at loud playing levels and can limit overall output level if carried to extremes.

The Parametric section is great for shaping a sharply defined tone changes. Set the Parametric Level @ +12 and sweep the Frequency control slowly as you play. This will give you a feel for the power of this tone control section.

To some things up. You will always have the best results creating a great bass tone around the natural tone of your instrument.

FOR YOUR SAFETY

Always use a correctly grounded receptacle for your Amplifier A.C. receptacle. If your fuse ever need replacement use only the same size and type that came with your unit from the factory. Your Nemesis comes with a two year warranty described in the warranty section of the manual.

If you have any questions or problems with your unit please contact us your local dealer, by calling 612-675-3650 and ask for the Nemesis Service Dept. The Nemesis Service Dept. is open Monday through Friday between 8:30 AM and 4:00 PM.

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