

NEMESIS NA-600

OWNERS MANUAL

600 WATT RMS

BASS GUITAR AMPLIFIER

DRAFT RELEASE 6-17-97

Forward

Congratulations on your purchase of the New Nemesis NA-600 Bass Guitar Amplifier by Eden Electronics. We are proud to present our Retro styled Hi tech Bass Guitar Amplifier, the NA-600. This Amplifier represents a great deal of research and design effort. We have put our best new technologies and some eye catching styling together to create a great sounding Bass head with an exciting visual appeal, great features and a monster 600 Watt RMS power Amplifier.

General Description

The NA-600 is 24" x 14 " x 10". It weighs only 45 Lbs. It has abuilt in lighting ,both for effect and control panel illumination. The NA-600 features a massive 18 gauge steel chassis, back lighting, thermostatically controlled fan, automatic limiter, built in road case, a high temperature Auto-limiting system, and international power supply voltages are available on every model. The Output Power of the NA-600 is 630 Watts RMS @ 2 Ohms, 435 Watts RMS @ 4 Ohms, and 270 Watts @ 8 Ohms output. THD less than .02%, all modular construction, and all Bi-Fet operational amplifiers.

Other professional features include: Fan cooling, Dual effect loops, Front panel controlled D.I., Front end compressor, Edge control, Enhance Control, Three Band E.Q. with semi parametric E.Q., Compressor Bypass, Gain Booster, Tune to Mute, Pre/Post D.I. selector, and Head Phones.

The unit carries a two year limited Warranty. Always use an authorized service center or the factory if you ever have a problem with your unit. If you have any questions about the operation of your unit, please call us at the Eden factory and ask for technical assistance @ 612-675-3650.

Description of the Front Panel Controls

Input Jack

The input signal is inserted here for standard operation. Because of the wide level range available from our special input and gain circuitry, only one input jack is required for both passive and active instruments.

Gain Control

The gain control is used to match the output level of your instrument to the proper operating level for the Amplifier and Compressor Limiter. For normal operation you should set the control between 10:00 and 1:00, unless you have an unusually high signal output Bass or a very low output Bass.

Level set light

This is the red LED indicator next to the Gain Control. It should be set to blink on the peaks for normal operation. In hard playing conditions it will come on more or less depending on how high the gain is set.

Compressor and the Compressor Bypass Switch

This switch allows you to bypass the front end Compressor/Limiter. The Compressor/Limiter in your unit is a fixed threshold type. You adjust the Compression level by turning the gain control up or down until you get the amount of compression you want. You may find the bypass switch useful for getting that maximum punch when your slapping or popping hard.

Gain Booster Switch

This switch is set up to let you switch between standard gain and high gain on the fly. The Booster switch provides 6 dB of Boost to the signal when engaged. The light is on in the High gain position. Engaging the high gain switch may also work very well for older very low output Instruments.

Edge Control

This is a great new feature for Nemesis. It allows you to dial in as much or as little vintage tube style distortion as you like. The control produces a warm single sided even order harmonic distortion that sounds just like the old tube heads. With the control at (min.) the circuit is bypassed. The farther to the right you turn the control the more distortion you will get. The distortion is fairly subtle at low input levels and is more pronounced at high gain settings.

Enhance Control

The Enhance control is a complex tone shaping pre-set. It is designed to boost the lower Bass frequencies, to scoop out the low midrange and boost the high end up all at the same time. The control is designed to give you a very quick and simple way to get a good quality modern Bass tone. 12:00 is considered about max. effect on this control and min. is off. This can be blended with the other controls to create many unique sounds.

Mute to Tune

When this switch is engaged it mutes both the stage sound and the D.I. send. Only the tuner output stays hot. The Mute is on or muted when the LED is on.

Semi-Parametric Equalizer (Quazi-Parametric)

A fully Parametric Equalizer has controls for Band width, center frequency and the level of boost or cut. These filters can be very difficult to set up correctly. These EQs have lots of good as well as bad sound combinations. Our Semi-Parametric filter has the Bandwidth fixed at a Q of (1), or in musical terms it is set a one octave in width. The center frequency is adjustable from 40 Hz to 10KHz. The level of boost or cut is +/- 15 dB. There is also a switch to bypass the EQ so that it can be used alone as a separate sound or with the other tone controls.

Three Band Tone Controls

The main tone control section is a simple Three Band tone equalizer. It divides the audio spectrum into three bands: Low, Mid, and High. The Low and High filters are shelving type filters. The Mid control is a band pass type filter. This control gives you a broad general control of the tone shaping.

Artist Controlled D.I. Selector and Level Control

This D.I. is adjustable from Microphone Level to line level. It can be selected for pre tone or post tone operation. The front panel Level Control makes adjusting the send to the house P.A. very quick and easy.

Output Limit Light

This LED indicator is located between the D.I. Level and Master Control Level pots. It will come on when the amplifier hits full output power. This should light up on occasion when the amplifier is played hard. It should not be on all the time.

Master Level Control

This control is directly ahead of the output power amplifier. It controls the main stage sound level and the Head Phone outputs.

Head Phones

The Head Phone jack is provided for practicing and can be used as an additional signal send or slave output as it follows the Master Control.

Light Switch and Internal Lighting

This lighted switch turns the internal light on and off. The internal lighting on your unit is designed to (PULSE and DIM) just as the amplifier reaches full power. These lights respond in the same way as the old vacuum tube systems did when they sucked all the available power out of power supplies at high playing levels.

Mains AC Power Switch

This turns your unit on and off. Due to the international voltage selector that your unit is equipped with the AC Mains power switching is placed ahead of the fuse. It is possible for the fuse to be blown and the indicator light to be on. It is set up that way to meet certain European Safety regulations. Always be certain the unit is properly set up for the correct voltage of the country it is being used in. If you have any questions about this call either the factory or an authorized service center and find out before you attempt to use your unit. If you need to change operating voltages for international travel call ahead and make certain that you know the voltage and line cord required by the country you will be going to. Always have a qualified technician do the voltage changes.

The Back Panel Operation

Main AC Inlet (IEC standard)

This inlet fits a standard computer office machine AC cord interconnect. The Fuse is located just above the plug receptacle. The correct voltage is displayed in the upper left corner of the holder and should read correctly with the rest of the printing on the amplifier. If a fuse blows replace it **ONLY WITH THE SAME TYPE AND SIZE**. The voltage of operation will be marked on the back of the unit.

Speaker Outputs

There are (4) speaker outputs provided (2) NL4 connectors and (2) ¼” jacks. For 4 and 2 Ohm operation we recommend using the NL4 connectors as they are much more robust than the ¼” type and will deliver more power to the speakers. The hot pins on the NL4 are the pins 1 + and -. The NA-600 power amplifier @ full limit puts out: @ 8 Ohms 270 Watts RMS, @ 4 Ohms 435 Watts RMS, and @ 2 Ohms 630 Watts RMS.

Recording Output and Ground Lift

The 3 pin XLR jack provides the direct connection for a recording or live P.A. console. It is fully balanced and is controlled by the D.I. level control on the front panel. The ground lift effects only pin (1) of the XLR and breaks the ground path from that pin to the chassis to reduce ground loop induced hum and noise.

Post Tone Effects Loop

This loop is set up after the tone controls and just before the power amplifier input. It breaks the circuit between the preamplifier and the power amplifier when in operation.

Pre Tone Effects Loop

This loop is before the tone controls. The send can be used as an extra signal output without breaking the loop. This loop is a good choice for outboard compressors and limiters.

Tuner Output

This gives you a place to connect your tuner out of the direct signal path of the Bass. It is always on. Even when the mute is engaged the output stays connected.

For Your Safety

Always use a correctly grounded outlet for your amplifier. Replace your fuse with only the same size and type of fuse. Your unit has a two year warranty described in the warranty section of your manual.

If you have questions about the operation of your unit or have any service needs please contact us @ Nemesis service 1-612-675-3579 or 612-675-3650 and ask for the Nemesis Service Dept.

CR Eden Electronics Inc. Montrose, MN 55363