ROCKTRON

TECHNOLOGY FOR GUITARISTS

Vendetta

U S E R ' S M A N U A L

100 Watt Tube Head & 2x12 Combo Amp

Made in USA

Designed by Bruce Egnater

Precautions - Please read!!

NOTE: IT IS VERY IMPORTANT THAT YOU READ THIS SECTION TO PROVIDE YEARS OF TROUBLE FREE USE. THIS UNIT REQUIRES CAREFUL HANDLING.

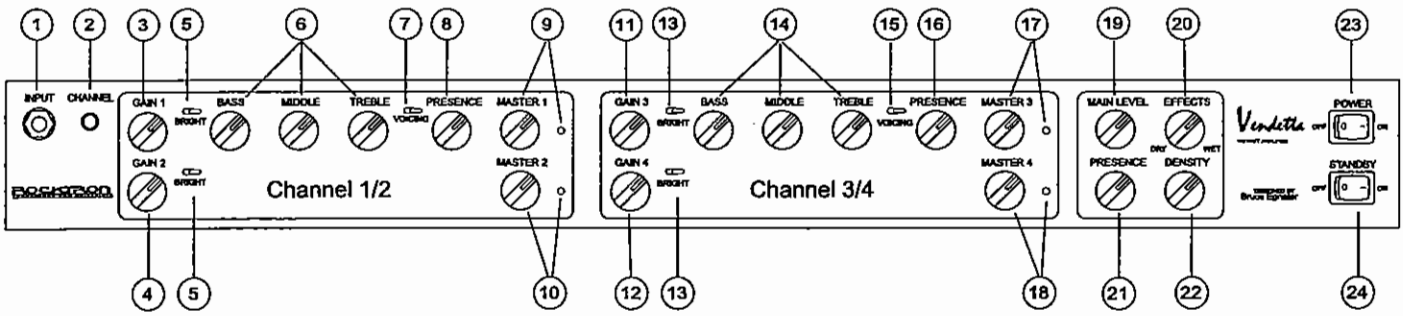
1. Read all instructions contained in this manual
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean with dry cloth.
7. Do not block any ventillation openings.
   Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. This product may be equipped with either a polarized alternating-current line plug (which is a plug that has one blade wider than the other) or a plug with two blades with a third grounding prong. The wide blade or the third prong are provided as a safety feature. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched - particularly at the plugs, convenience receptiacles, and that the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Do not use this product with any case, stand, tripod, bracket or table that is not specified by the manufacturer. Where it is specified by the manufacturer insure that the case, stand, tripod, bracket, etc. is properly adjusted and setup. Extra care and caution should be taken to avoid tip over and injury.
13. Unplug this apparatus during lightning storms or when unused during long period of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the appartaus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus or if the apparartus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. To be in full CE and CSA compliance it is recommended to operate the apparatus at least 6 inches (or 16 centimeters) away from any wall or object.

DO NOT ATTEMPT TO SERVICE THIS EQUIPMENT. THIS EQUIPMENT SHOULD BE SERVICED BY QUALIFIED PERSONNEL ONLY. DO NOT MAKE ANY INTERNAL ADJUSTMENTS OR ADDITIONS TO THIS EQUIPMENT AT ANY TIME. OT TAMPER WITH INTERNAL ELECTRONIC COMPONENTS AT ANY TIME. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID THE WARRANTY OF THIS EQUIPMENT, AS WELL AS CAUSING SHOCK HAZARD.

OPERATING TEMPERATURE

Do not expose this unit to excessive heat. This unit is designed to operate between 32° F and 104° F (0° C and 40° C). This unit may not function properly under extreme temperatures.

Front Panel



① **INPUT jack**
This ¼" jack accepts the output from the guitar.

② **CHANNEL switch**
Selects one of the four channels in sequence - 1 through 4. Also used to store midi data. See the MIDI section for more information.

Channels 1 and 2

③ **GAIN 1 control**
Adjusts the amount of drive for Channel 1. Higher settings increase distortion and sustain. 60's British Style clean.

④ **GAIN 2 control**
Adjusts the amount of drive for Channel 2. Higher settings increase distortion and sustain. Hotter than channel one.

⑤ **BRIGHT switches (Channel 1 and Channel 2)**
Increases "sparkle" and "bite" of the channel.

⑥ **BASS, MID, TREBLE and PRESENCE controls**
This is where *you* decide the personality. The BASS, MID and TREBLE controls are your classic bridge-T configuration (found in most of the popular guitar amps throughout history). The PRESENCE control allows you to tailor the high frequency response to suit your taste. Experiment...try new things. There are many great tones at your fingertips!

⑦ **VOICING switch**
Select VINTAGE or MODERN. This switch affects both Channel 1 and Channel 2.

⑧ **PRESENCE control**
Tailors the high frequency of the channel. This control affects both Channel 1 and Channel 2.

⑨ **MASTER 1 control and channel on LED**
Adjusts the overall volume of Channel 1 only and indicates the channel is active when LED is lit.

⑩ **MASTER 2 control and channel on LED**
Adjusts the overall volume of Channel 2 only and indicates the channel is active when the LED is lit.

Channels 3 and 4

(11) **GAIN 3 control**
Adjusts the amount of drive for Channel 3. Higher settings increase distortion and sustain. British grind to EVH one.

(12) **GAIN 4 control**
Adjusts the amount of drive for Channel 4. Higher settings increase distortion and sustain. The "hot rod" version of Channel 3.

(13) **BRIGHT switches**
Increases "sparkle" and "bite" of the channel.

(14) **BASS, MID, TREBLE and PRESENCE controls**
The BASS, MID and TREBLE controls are your classic British bridge-T configuration (found in most of the popular guitar amps throughout history). The PRESENCE control allows you to tailor the high frequency response to suit your taste. Experiment...try new things. There are many great tones at your fingertips!

(15) **VOICING switch**
Select VINTAGE or MODERN. This switch affects both Channel 3 and Channel 4

(16) **PRESENCE control**
Tailors the high frequency of the channel. This control affects both Channel 3 and Channel 4.

(17) **MASTER 3 control and channel on LED**
Adjusts the overall volume of Channel 3 only and indicates the channel is active when the LED is lit.

(18) **MASTER 4 control and channel on LED**
Adjusts the overall volume of Channel 4 only and indicates the channel is active when the LED is lit.

Master Section

(19) **MAIN LEVEL control**
This is a master level control which determines the overall output level of the VENDETTA.

(20) **EFFECTS control**
When using the parallel loop, this control adjust the amount of effects that will be mixed with your direct signal.

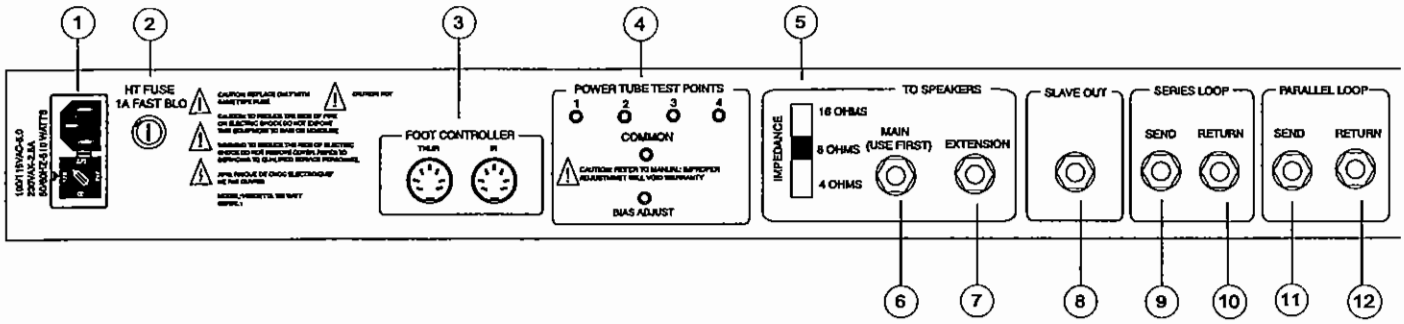
(21) **PRESENCE control**
This is a master PRESENCE control which tailors the overall high frequency at the outputs of the VENDETTA.

(22) **DENSITY control**
This is a master DENSITY control which determines the overall fatness of the VENDETTA.

(23) **POWER switch**
This is the MAINS AC power switch. When powering up the VENDETTA, verify that the STANDBY switch (19) is in the "OFF" position.

(24) **STANDBY switch**
After powering up the VENDETTA, allow one minute to allow the circuits to stabilize then switch to the "ON" position.

Rear Panel



(1) **POWER INLET module**

The Power Inlet module accepts the detachable power cord included with the unit, and also houses the main power fuse and voltage selector. (Always replace with the Slo-Blo fuse indicated on the rear panel.)

(2) **HT FUSE**

This fuse provides internal protection in the event of a power tube failure. Always replace with the same type and rating.

(3) **FOOT CONTROLLER section**

See page titled MIDI/Switching Section for a detailed operation of the MIDI and channel-switching functions.

(4) **POWER TUBE TEST POINTS**

This feature provides a convenient point for measuring the idle current in the power tubes without disassembling the unit (requires amp meter). Different tube types can be used by readjusting the bias. Please see section on "Power Tube Test Points" for additional information.

(5) **IMPEDANCE switch**

This switch selects the proper impedance to match the output of the amplifier to the load. (See the section on Impedance Settings for more details).

(6) **MAIN SPEAKER output**

This jack connects to the internal speaker on the COMBO version of the VENDETTA or to the primary speaker in a head/cabinet setup. A speaker must always be connected to this jack.

(7) **EXTENSION SPEAKER output**

This jack is used to connect additional speakers to the combo or when multiple cabinets are used with the head version of the VENDETTA.

(8) **SLAVE OUT jack**

This ¼" mono jack provides a FULL RANGE direct output after the power amplifier stage. It is intended to be used as an output to feed an external effects system or to an additional powered speaker system. It is not a RECORDING output.

Rear Panel cont.....

⑨ **SERIES LOOP - SEND jack**
This ¼" jack connects to the INPUT of an effects device.

⑩ **SERIES LOOP - RETURN jack**
This ¼" jack connects to the OUTPUT of an effects device. Inserting a plug into this jack autmatically activates the effects loop circuit

⑪ **PARALLEL LOOP SEND jack**
This ¼" jack connects to the INPUT of an effects device.

⑫ **PARALLEL LOOP - RETURN jack**
This ¼" jack connects to the OUTPUT of an effects device. Inserting a plug into this jack automatically activates the effects loop circuit and the front panel effects loop control.

Operating Precautions

Please note the following precautions before operating your VENDETTA:

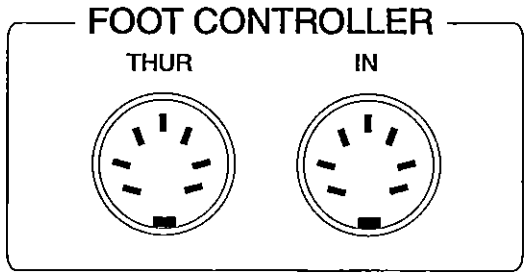
- Always use the MAIN SPKR jack first for the speaker connection.
- Do not operate below 4 ohms.
- Never operate the VENDETTA without a load on the output. Always have a speaker cabinet plugged into the speaker output before turning on the unit.
- Always be certain to use speakers or speaker cabinets capable of withstanding the power that the VENDETTA is capable of providing. Rocktron is not responsible for speaker failure resulting from the use of this equipment.
- Always plug and unplug speaker outputs with the power amplifier OFF.

Temperature Considerations:

- Note that the power tubes at the rear of the VENDETTA generate considerable heat when operating the amplifier. **DO NOT TOUCH THESE TUBES DURING (OR SOON AFTER) OPERATION! Failure to heed this warning may result in severe burns!**
- Always keep well ventilated. Do not block the top vent.
- Do not let cables rest on power tubes.

MIDI/Switching Section

This section describes the rear panel components (shown below) which relate to MIDI and channel switching options.



VENDETTA rear panel Foot Controller MIDI/Channel switching section

MIDI Pedal Connection/Operation/Phantom Power

The **MIDI "IN"** connection on the back panel of the VENDETTA is a 7-Pin MIDI jack. However, a standard 5 Pin MIDI cable will work.

Plug your MIDI controller (pedal) into the **MIDI "IN"** on the back of the VENDETTA via standard 5 pin MIDI cable. The optional Rocktron RM4 MIDI Pedal is recommended and can be run via **Phantom Power** with a Rocktron RMM900 7 pin MIDI cable (available through your Rocktron dealer). With a 7-pin MIDI cable, pins 6 & 7 will supply power to your MIDI controller. 7-pin MIDI cables are available through your Rocktron dealer. Additionally the Vendetta will also supply Phantom Power to other Rocktron MIDI Pedals such as the MIDI Mate, All Access and MIDI XChange.

NOTE: The VENDETTA is programed at the factory to default to Channel 1.

Plugging in a MIDI Controller (Pedal) whether it is the Rocktron RM4 4-button controller or a Rocktron MIDI Mate or MIDI XChange the Vendetta channels 1-4 will correspond with the MIDI controller buttons 1-4.

VENDETTA Channel 1 - MIDI Controller Button 1
VENDETTA Channel 2 - MIDI Controller Button 2
VENDETTA Channel 3 - MIDI Controller Button 3
VENDETTA Channel 4 - MIDI Controller Button 4

Pressing Button 1 on your MIDI Controller will call up VENDETTA Channel 1 - Pressing button 2 on your MIDI Controller will call up VENDETTA Channel 2....and so on.

You may also change which button controls which channel on the VENDETTA as well. For example, if you want MIDI Controller Button 2 to turn on VENDETTA channel 1 -first, select button 2 on the MIDI controller. Next scroll through the channels using the "Channel Select" switch on the front panel of the amplifier until you get to Channel 1. Then, press and hold the Channel Select switch for two seconds. This will set the Vendetta channel 1 to respond to your MIDI Controller button 2. Follow the same steps to change other channels or to change back to the original configuration.

MIDI Thru and MIDI In Jacks

MIDI THRU

This 7-pin DIN connector passes on the MIDI information that is received at the MIDI IN jack to other MIDI-compatible devices via a MIDI cable. Although, this part is a 7-pin connector, a standard 5-pin MIDI cable can be used.

To control the VENDETTA and another MIDI compatible device (like a Rocktron Intellifex), plug a standard 5-pin MIDI cable from the MIDI Thru on the VENDETTA into the MIDI IN on the compatible device. At this point refer to your MIDI controller (pedal) manual for program changes, MIDI Mapping and/or advance functions.

Note: Inherently in MIDI there is a limit to the number of devices which can be chained together (i.e. connected in series). With more than three devices connected, a slight distortion of the MIDI signal can occur (due to signal degradation) which can cause an error in MIDI signal transmission. Should this problem arise, a MIDI box can be used which connects directly to the MIDI device which transmits MIDI information and has multiple connectors for the multiple devices receiving MIDI. MIDI cables should not exceed 50 feet (15 meters) in length.

Impedance Settings

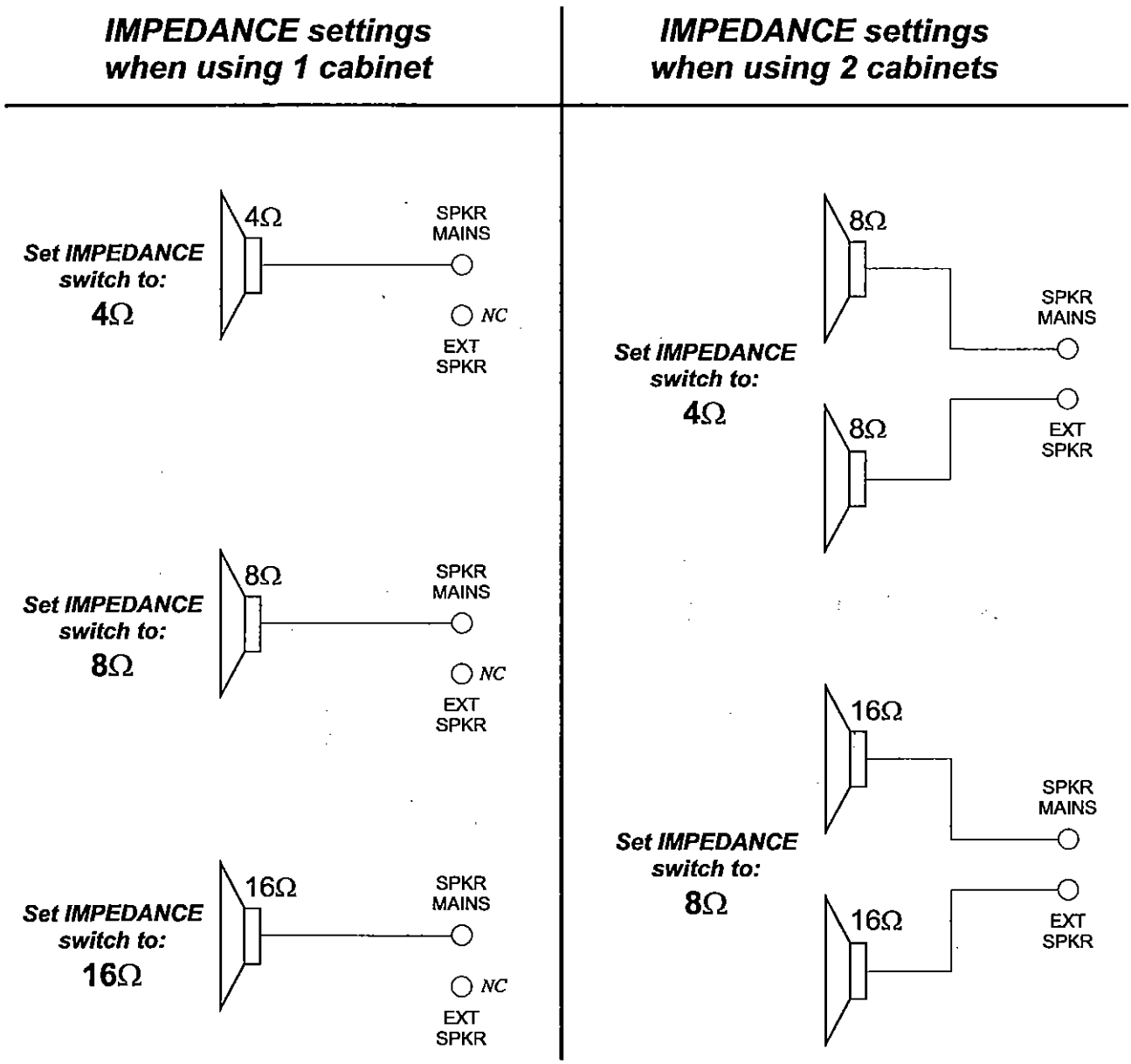
The IMPEDANCE switch on the output must be set to match the speaker load that is connected. The speaker jacks are wired internally in parallel. Use the chart on the following page to determine the proper setting of the IMPEDANCE switch for your particular speaker configuration.

Important Notes:

2x12 | *The proper setting for the VENDETTA 2X12 combo is 16 ohms when using only the internal speakers. When connecting an external speaker, use the chart on the following page to determine the proper setting.*

☝ | *If only one speaker (internal) or cabinet is used, as with the head model, the MAIN SPEAKER output must be used FIRST. If the MAIN SPEAKER output is not used, no signal will be present and possible damage to the amplifier may result!*

Impedance Settings..cont.



Proper IMPEDANCE switch settings

Effects Loop Operation

The effects loop on the VENDETTA offers two modes of operation, as decribed below.

Series Mode

When an effect is inserted into the loop send and return jacks, the direct signal path is interrupted and 100% of the signal is routed through the effects unit. This is the most common style of effects loop in most guitar amplifiers.

This configuration allows the use of most special effects such as reverb, echo, chorus, pitch shift, equalizers, noise reduction, etc. The only disadvantage to this loop is that your TONE may be affected by the effects processor because your signal passes through it at all times.

Parallel Mode

This is the more specialized mode that is limited in its use, but offers the advantage of leaving your direct signal intact even when an effects unit is inserted in the loop. Your TONE is not hindered by the effects processor. Think of this mode as similar to the effects buss on a mixing console. Your DIRECT signal is always present, and the processed signal is MIXED in using the FX LEVEL/MIX control.

"Time-based" effects are ideally suited for this application. Echo, reverb, delay, flanging and phasing are all examples of time-based effects.

Processors that WILL NOT function properly in a PARALLEL loop include noise reduction, equalizers, compressors and limiters. The reason for this is because, for these devices to work, they MUST PROCESS 100% of the signal. For example, you cannot equalize the signal if you have the "unequalized" signal along with it. Makes sense, doesn't it?

* *When using this mode, you must program the effects unit for 100% wet. You do not want any dry (uneffected) signal to be allowed to pass through the effects processor.*

Fuse Replacement

Fuse Replacement

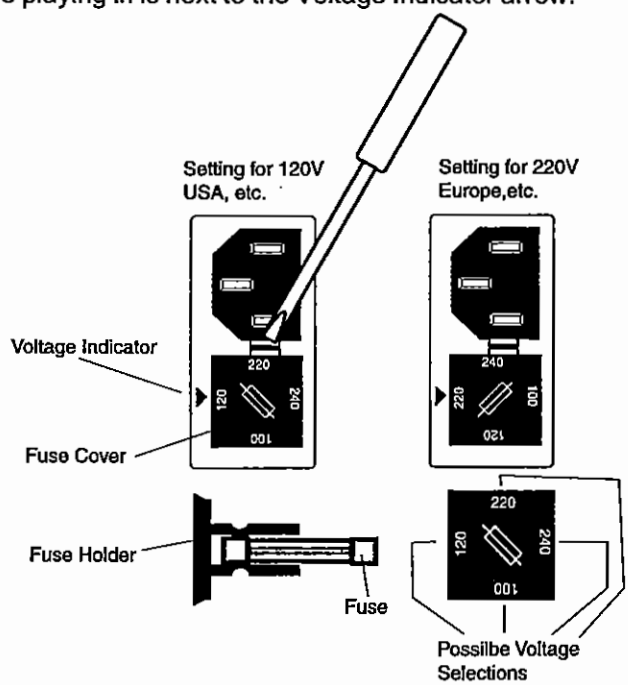
Always replace the main fuse with an identically rated replacement. Your VENDETTA amplifier uses a 3ag, 5A amp, 250V slow-blow fuse (2.5A, 250V slow-blow for 230VAC). The fuse is located immediately below the line cord inlet on the rear panel and can be accessed by removing the fuse cover module as shown below.

REPLACING THE FUSE

① Use a small flat screwdriver as shown to slide the fuse cover/voltage selector out from the power inlet module. The fuse can be found inside the fuse cover module after it is pulled out.

② After replacing the fuse with another of identical specifications, push the fuse cover module fully back into place, ensuring that the fuse has snapped onto the fuse holder inside the power inlet module and the voltage selector is set to the proper voltage.

③ Voltage Indicator:
This is noted by the small arrow. Make sure when replacing a fuse or if you are playing in a different country with different voltage that you properly replace the fuse so that the voltage of the country you are playing in is next to the Voltage Indicator arrow.



Tube Replacement

POWER TUBE TEST POINTS USEAGE.

Please note that any adjustments, modifications, upgrades, etc made to the VENDETTA may void the warranty. All work should be performed by a qualified technician.

This feature on the rear panel provides a convenient point for measuring the idle current in the power tubes without disassembling the unit. Different tube types can be installed and used in the Vendetta and biasing has been simplified.. The instructions below explain how it works.

CAUTION!! DO NOT EXCEED THE VALUES SHOWN. This will shorten tube life, cause possible tube failure and damage to the amplifier.

A digital voltmeter capable of displaying DC voltage from 0 to 200 millivolts is required. This can be an inexpensive type found at most electronic suppliers such as Radio Shack. It is not necessary to connect a speaker during this process.

1) Turn all controls full counter clockwise.
2) Turn the power on and allow 5 minutes for warm up.
3) Place the standby switch in the "on" position and allow another 5 minutes for the tubes to stabilize.
4) You are now ready to measure. Set your voltmeter to the 200 millivolt scale. Insert the black test probe into the "common" test point. Insert the read test probe into the #1 test point. You should now see a reading within the range shown in the chart below. While leaving the black probe connected, move the red probe to each of the four test points and write down the voltage readings at each. You have now measured and documented the actual current that is flowing through each of the four power tubes. The readings should be within 5 millivolts of each other. If not, the tubes are not closely matched. Now connect you meter to the test point with the highest reading. Turn the bias adjust with a small screw driver until the reading is within the value on the chart.

Tube Type	Min Value	Max Value
EL34	28mV	40mV
E34Ls	30mV	45mV
6L6	25mV	35mV
5881	25mV	35mV
KT66	25mV	35mV
6550	30mV	45mV

Note: 6V6 type is not safe to use due to the high (500 volts) plate voltage.

Specifications

Input Impedance	1M
Output Power	100 watts RMS
Load Impedance	4Ω, 8Ω or 16Ω (switch selectable)
Maximum Gain	over 80dB
Operating Voltages	100 VAC, 120 VAC, 220 VAC, 240 VAC
Dimensions	VENDETTA HEAD - 29 1/4 x 9½ x 10½ - 55 lbs.
	VENDETTA 2x12 - 24 x 30½ x 10½ - (Weight-TBD)
Speaker	(2X12 Only) Two 12" Celestion Vintage 30's
	(4x12 Cabinet Available Seperately uses four 12"
	Celestion Vintage 30 Speakers)
Equalization	3-Band Bridged-T — Treble, Middle, Bass
	Plus Presence and Density

Check out some of our other products:

Rack Gear:

VP4 - Vendetta Preamp *(all tube guitar preamp-4-channels)*

Chameleon 2000 *(digital preamp w/multi-effects)*

Voodu Valve *(digital preamp w/12ax7 tube and multi-effects)*

Prophesy *(our top of the line digital preamp with multi-effects)*

Xpression *(multi-effects processor for guitar and bass)* **Blue Thunder** *(bass preamp with multi-effects)*

HUSH Super C *(guitar noise silencing system)* **Gainiac** *(analog guitar preamp with 12ax7 tube)*

Stomp Boxes:

Rampage Distortion, Tsunami Chorus, Austin Gold Overdrive, HUSH The Pedal, Vertigo Vibe, Banshee Talk Box, Metal Planet Distortion, Deep Blue Chorus Pedal, Sonic Glory Overdrive, Short Timer Digital Delay, Big Crush Compressor, Black Cat Moan Wah Wah, HEX Volume/Expression Pedal, Silver Dragon Tube Distortion, X-Tune Pedal Tuner

Guitar Amplifiers:

RepliTone *(1x12 and 2x12 Digital Guitar Amplifiers with Multi-effects)*

RT80 *(80W 1x12 Amp w/Reverb & Built-in Chromatic Tuner)* **R80DSP** *(80W 1x12 Amp w/Digital Effects)*

RT122C *(120W 2x12 Amp w/Chorus, Reverb & Chromatic Tuner)*

R120DSP *(120W 1x10 Amp w/Built-in Digital Effects)*

ACOUSTIC *(60 Watt Acoustic Amp with Chorus & Reverb)*

R50C *(50 Watt 2x8"Guitar Amp w/Reverb & Chorus)* **R50DSP** *(50 Watt 2x8"Guitar Amp w/Digital Effects)*

RB20 *(20 Watt 1x8" Bass Amp)* **RB30** *(30 Watt 1x10" Bass Amp)*

RB60 *(60 Watt 1x12" Bass Amp)* **RB100** *(100 Watt 1x15" Bass Amp)*

RA30DSP *(30W Acoustic Amp w/Digital Effects)* **RA50DSP** *(50W Acoustic Amp with Digital Effects)*

Foot Controllers:

MIDI XChange *(Midi Foot Controller)* **MIDI Mate** *(Midi Foot Controller)*

All Access *(Midi Foot Controller)*

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Vendetta

Rocktron -A Division of GHS Corporation
2813 Wilber Avenue
Battle Creek MI 49015
USA
Rocktron Phone: 1-(269)-968-3351
Email: info@rocktron.com

Check us out on the web at:

www.rocktron.com

2003-0001
Rev. 4/22/03