

**ROCKTRON**  
TECHNOLOGY FOR GUITARISTS

***VELOCITY***®

**V50D**

***ELECTRIC GUITAR AMPLIFIER WITH DIGITAL DELAY  
AND CHORUS***

**User's Manual**

Velocity® is a registered trademark of GHS Corporation Battle Creek MI, USA

*May be covered by one or more of the following: U.S. Patents #4538297, 4647876, 4696044, 4745309, 4881047, 4893099,  
5124657, 5263091, 5268527, 5319713, 5333201, 5402498 and 5493617.  
Other patents pending. Foreign patents pending.*



Your Rocktron Velocity V50D amplifier has been designed to comply with the following Standards and Directives as set forth by the European Union:

Council Directive(s): 89/336/EEC, 73/23/EEC, 76/769/EC, 1994/62/EC, 2000/53/EC, 2002/95/EC

Standard(s): EN55022, EN50082-1, EN60065

This means that this product has been designed to meet stringent guidelines on how much RF energy it can emit, and that it should be immune from other sources of interference when properly used. Improper use of this equipment could result in increased RF emissions, which may or may not interfere with other electronic products.

To insure against this possibility, always use good shielded cables for all audio input connections. This will help insure compliance with the Directive(s).

# Precautions

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

- All warnings on this equipment and in the operating instructions should be adhered to and all operating instructions should be followed.
- Do not use this equipment near water. Care should be taken so that objects do not fall and liquids are not spilled into the unit through any openings.
- The power cord should be unplugged from the outlet when left unused for a long period of time.
- Do not block any ventilation openings (if applicable). Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- Only used attachments/accessories specified by the manufacturer.
- Do not use this product with any case, stand tripod, bracket or table that is not specified by the manufacturer. Insure that the case, stand, tripod, bracket etc. is properly adjusted and setup (follow all instructions). Extra care and caution should be taken to avoid tip over and injury.
- Unplug this apparatus during lightning storms or when unused during long periods of time.

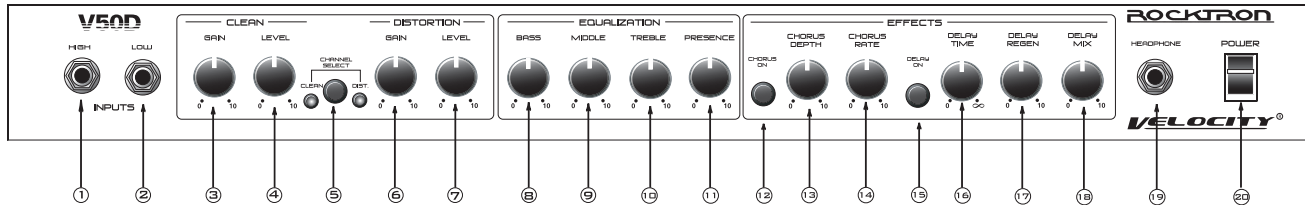
Refer all service to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply or plug is damaged, liquid has been spilled or objects have fallen into the apparatus or if the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

**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. DO NOT 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 DESCRIPTIONS



## INPUT JACKS

- 1 HIGH INPUT jack**

This is a high impedance input jack. Connect the output of your guitar to the 1/4" input jack with a shielded guitar cable. Use this jack if you want a little more "edge" to your input. Note use only the High or the Low input, not both at the same time.
- 2 LOW INPUT jack**

This is a low impedance input jack. Connect the output of your guitar to the 1/4" input jack with a shielded guitar cable. Use this jack if you want a little less "edge" to your input. Note use only the High or the Low input, not both at the same time.

## CLEAN CHANNEL

- 3 GAIN control**

This knob determines the amount of GAIN (or distortion) added to the clean signal. Turning the knob clockwise will add more GAIN to the signal. Turning the knob counter-clockwise will decrease the amount of GAIN added to the signal.
- 4 LEVEL control**

This knob determines the LEVEL (or volume) of the CLEAN channel. Turning the knob clockwise will increase the LEVEL of the clean channel. Turning the knob counter-clockwise will decrease the LEVEL of the clean channel.
- 5 CH SELECT Button /CLEAN & DIST. LEDs**

Channel Select button allows you to select between the CLEAN or the DISTORTION channel. When the CLEAN LED is ON (or lit) the CLEAN channel is active. When the DIST. LED is ON (or lit) the DISTORTION channel is active.

## DISTORTION CHANNEL

- 6 GAIN control**

This knob determines the amount of GAIN (or distortion) added to the signal in the distortion channel. Turning the knob clockwise will add more GAIN to the signal. Turning the knob counter-clockwise will decrease the amount of GAIN added to the signal.
- 7 LEVEL control**

This knob determines the LEVEL (or volume) of the distortion channel. Turning the knob clockwise will increase the LEVEL of the distortion channel. Turning the knob counter-clockwise will decrease the LEVEL of the distortion channel.

## EQUALIZATION CONTROLS

- ⑧ **BASS control**  
This knob controls the overall bass of both the CLEAN and DISTORTION channels. The BASS control boosts or cuts the amount of low frequencies, or bass sound in the signal.
- ⑨ **MIDDLE control**  
This knob controls the overall MIDDLE frequencies of both the CLEAN and DISTORTION channels. The MIDDLE control boosts or cuts the amount of mid-band frequencies present in the signal.
- ⑩ **TREBLE control**  
This knob controls the overall TREBLE of both the CLEAN and DISTORTION channels. The TREBLE control boosts or cuts the amount of high frequencies present in the signal.
- ⑪ **PRESENCE control**  
This knob controls the overall PRESENCE of both the CLEAN and DISTORTION channels. The PRESENCE will increase or decrease the definition of the notes being played.

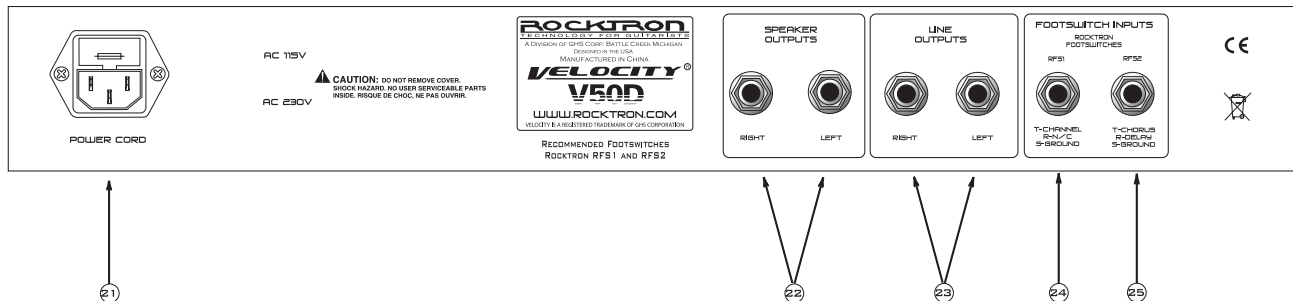
## EFFECTS and CONTROLS

- ⑫ **CHORUS button**  
The Chorus button activates the stereo chorus. When the button is pushed in the Chorus is ON. When the button is out, the Chorus is OFF.
- ⑬ **CHORUS DEPTH control**  
The Chorus Depth control adjusts the amount of modulation. Turning it clockwise increases the depth of modulation. Turning it counter-clockwise decreases the depth of modulation.
- ⑭ **CHORUS RATE control**  
The Chorus Rate control adjusts the speed of the modulation. Turning this control clockwise increases the speed. Turning it counter-clockwise decreases the speed.
- ⑮ **DELAY button**  
The Delay button activates the digital delay. When the button is pushed in the Delay is ON. When the button is out, the Delay is OFF.
- ⑯ **DELAY TIME control**  
The Delay Time control adjusts the length of delay. Turning the control clockwise increases the length of the delay. Turning the control counter-clockwise decreases the length of the delay.
- ⑰ **DELAY REGEN (regeneration) control**  
The Delay Regen (regeneration) control adjusts the number of repetitions of delay effect. Turning the control clockwise increases the number of repetitions. Turning the control counter-clockwise decreases the number of repetitions.
- ⑱ **DELAY MIX control**  
The Delay Mix control adjusts the overall volume of the delay effect mixed in with the dry signal. Turning the control clockwise increases the volume/mix of the delay. Turning the control counter-clockwise decreases the volume/mix of the delay.

## FRONT PANEL DESCRIPTIONS continued...

- ①9 **HEADPHONE jack**  
Plugging your headphones into this jack disconnects the sound going to the speakers and allows you to practice in private.
- ②0 **POWER switch**  
Turns the amp ON and OFF. When the LED is lit, the amp is on.

## BACK PANEL DESCRIPTIONS



- ②1 **POWER CORD PLUG**  
Using the supplied detachable power cord, plug the amplifier into any standard wall outlet. Please be sure to check your local wiring and voltage to make sure your amplifier is the proper voltage for your area of the world. Please follow all the precaution guidelines found in the front of this manual. When replacing the fuse, please be sure to replace the fuse with the specific fuse as stated on the chassis next to the power cord plug. A description on how to change the fuse is covered later in this manual.
- ②2 **SPEAKER OUTPUT Jacks - Right & Left**  
Used to connect additional speaker cabinets if desired. The V50D will drive a 4x12 and sounds awesome. Connect only one additional 8 ohm cabinet per jack. Do not connect more than one per jack or you will damage your amp!
- ②3 **LINE OUT - Output Jacks - Right & Left**  
These 1/4" output jacks provide a line level signal. This can allow you to plug into a recording device, power amplifier, speaker simulator, PA system, etc. The line output is not controlled by the master volume control. Please follow all manufacturer's instructions when plugging this product into any outboard device.

### FOOTSWITCH Jacks

- ②4 **FOOTSWITCH Input RFS1**  
Using a ROCKTRON RFS1 footswitch (sold separately) you can control your channel switching via a footswitch allowing you to switch between the CLEAN and DISTORTION channels.
- ②5 **FOOTSWITCH Input RFS2**  
Using a ROCKTRON RFS2 footswitch and a stereo cord (both sold separately) you can turn both the CHORUS and DELAY effects ON and OFF.

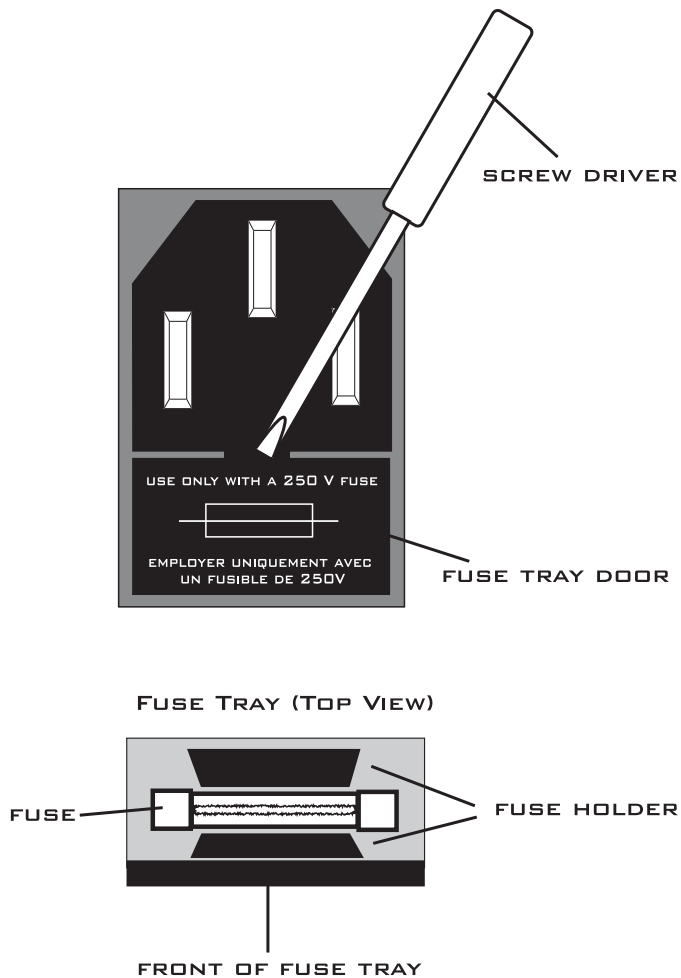
*\* Rocktron Rampage single (RFS1) and double (RFS2) footswitches are available and sold separately.*

# V50D Specifications

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Power Output		50 Watts (2x25)
Speakers		2 x 8" Custom Voiced Velocity Speakers by Rocktron
EQ	Treble Middle Bass Presence	Active Shelving Active Bandpass Active Shelving Active Shelving
Outputs:	Line Speaker	Two 1/4" jacks Two 1/4" jacks
Headphone Output		One 1/4" jack
Channels		CLEAN and DISTORTION(Footswitchable via Rocktron RFS1 footswitch - sold separately)
Effects		Built-in Stereo Chorus and Digital Delay (Footswitchable via Rocktron RFS2 footswitch - sold separately)
Dimensions		580mm(W) x 226mm(H) x 412mm(D) 23" x 9" x 16.5"
Weight		34.1lbs (15.5KG)
Power Requirements		100 Volts AC 50/60Hz or 117 Volts AC, 60Hz or 220/240 Volts AC, 50/60Hz, as specified on chassis
Fuse		110-120V - Use F2A 220-240V - Use F1A

# Fuse Replacement



We recommend that you use an authorized repair person to change the fuse in this unit.

To access the fuse, first power down the unit and unplug the cable from the wall outlet and the amplifier. Using a small screw driver, open the fuse tray by prying open the small tab as shown in the drawing above.

Please note that the tray will not come all of the way out.

Remove the old fuse and replace with a comparable new fuse and close the tray being sure that the tray snaps into position. You will find the information on the fuse used in the specifications section of this manual.



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