VELOCITY 100

USER'S MANUAL

ROCKTRON CORPORATION

CE

Your Velocity 100™ has been tested and complies with the following Standards and Directives as set forth by the European Union:

Council Directive(s): 89/336/EEC Electromagnetic Compatibility

Standard(s): EN55013, EN50082-1

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 and output connections. Also, bundle audio cables separately from the AC power cables. These steps will help insure compliance with the Directive(s).

For more information about other Rocktron products, please see your local dealer or one of our importers closest to you (listed on the enclosed warranty sheet).

Contents

Introduction

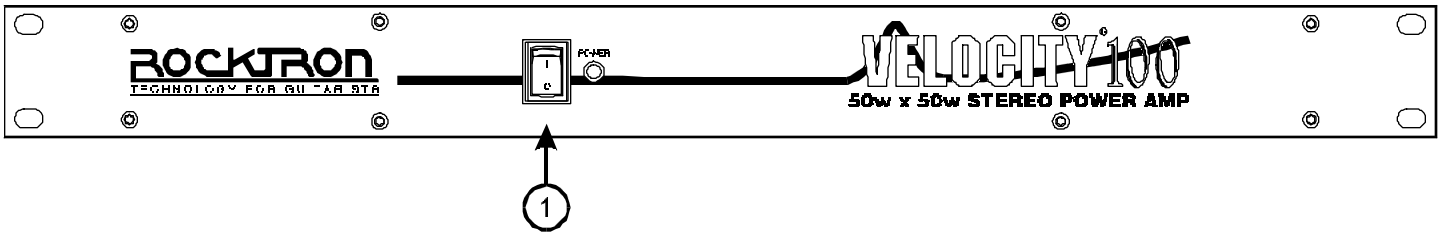
Congratulations on your purchase of the Rocktron Velocity 100 power amplifier!

The Velocity 100 was designed to provide great flexibility and high reliability. This single-rackspace amplifier provides 55 watts of power per channel into a 4 ohm load, or 40 watts per channel into an 8 ohm load.

In addition, the amplifier incorporates thermal protection circuitry, as well as protection from overvoltage, undervoltage and any shorts to the power supplies.

This manual will introduce you to the Velocity 100 and its features, please keep it for future reference.

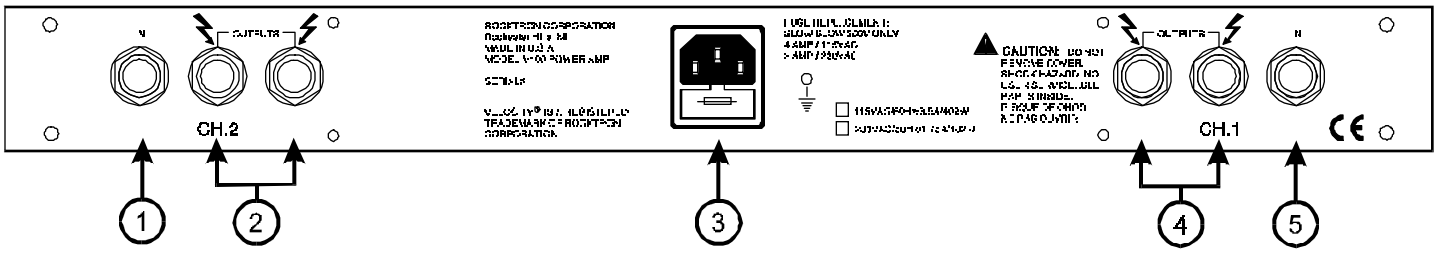
Front Panel



1 **POWER switch/LED**
When lit, the LED indicates that the Velocity 100 is powered and ready for operation.

Note:
There are no volume adjustments on the Velocity 100. To ensure speaker life, use the output level of the unit connected to the Velocity 100's inputs as the master volume control. Begin operation with this output level down, then slowly bring up the volume to the desired level.

Rear Panel



1 **IN jack (Ch.2):**
This ¼" jack provides an input to Channel 2 from the output of a preamp or the device in an effects chain.

2 **OUTPUTS jacks (Ch. 2):**
These ¼" mono jacks provide outputs for Channel 2 to speaker cabinets. These jacks are configured in parallel.

Important!
Do not use these outputs with loads of 2Ω or less. When using both output jacks to provide multiple speakers for a given channel, it is important to ensure that the combination of speaker impedances for the given Velocity 100 output channel does not equate to a combined impedance of 2Ω or less.

3 **POWER module**
This module provides a connection for the power cord and also houses the main fuse of the unit. (For information about changing the fuse, please see page 5.)

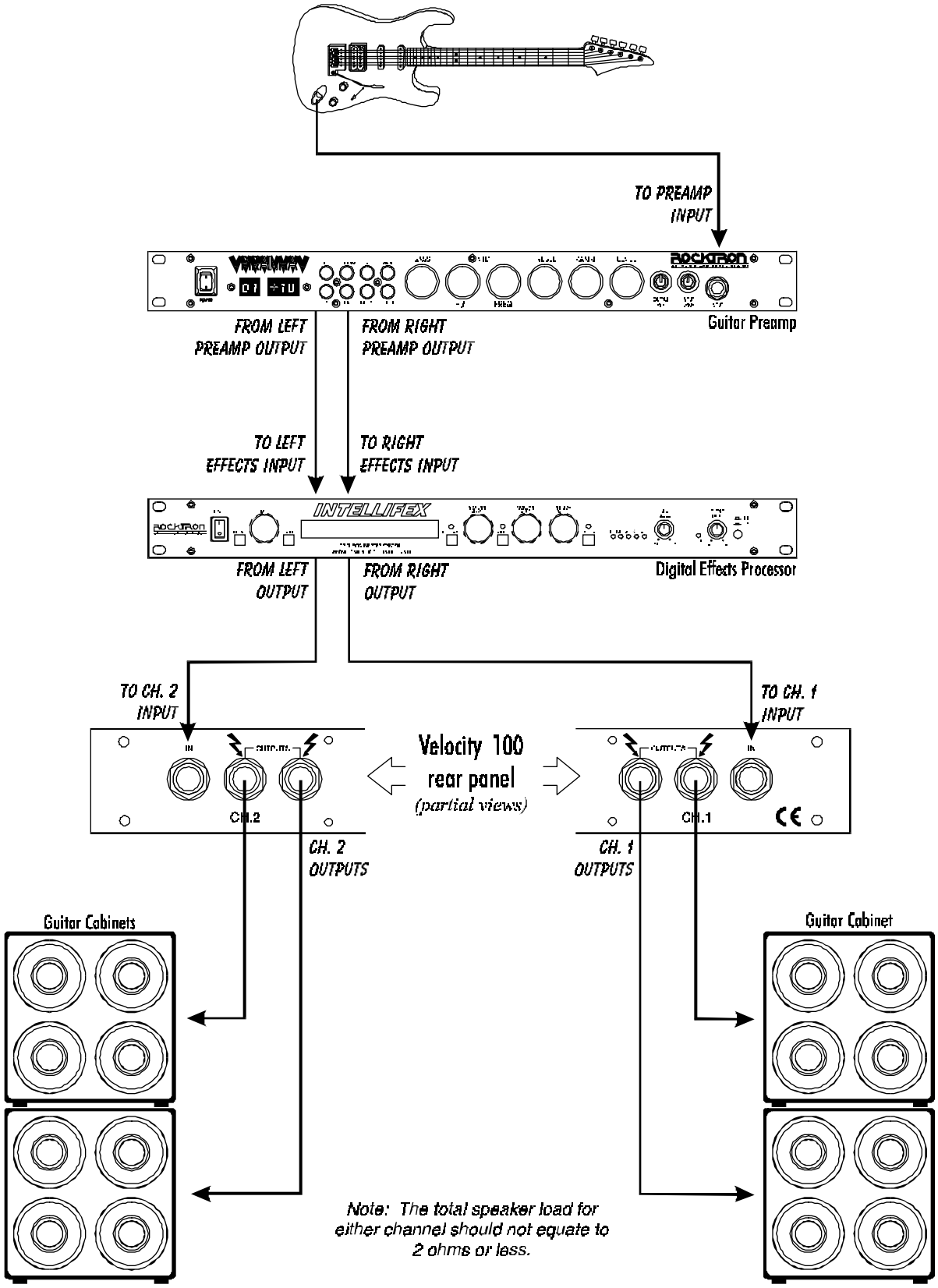
4 **OUTPUTS jacks (Ch. 1):**
These ¼" mono jacks provide outputs for Channel 1 to speaker cabinets. These jacks are configured in parallel.

Important!
Do not use these outputs with loads of 2Ω or less. When using both output jacks to provide multiple speakers for a given channel, it is important to ensure that the combination of speaker impedances for the given Velocity 100 output channel does not equate to a combined impedance of 2Ω or less.

5 **IN jack (Ch.1):**
This ¼" jack provides an input to Channel 1 from the output of a preamp or the device in an effects chain.

Connections

Stereo Applications



Operating Precautions

Although operation of the Velocity 100 is simple once the proper connections have been made, attention to the following precautions is essential to protect your equipment against failure and ensure the long life of your Velocity® amplifier.

! The Velocity 100 is capable of producing the following power output levels into each of these loads:

55 watts @ 4Ω
40 watts @ 8Ω
28 watts @ 16Ω

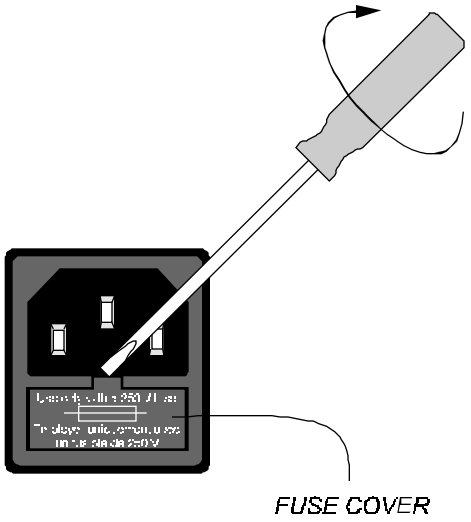
Always be certain to use speakers or speaker cabinets capable of withstanding the power provided for the above loads. Rocktron is not responsible for speaker failure resulting from the use of this equipment.

! **Never** connect 2 outputs of the amplifier to the same speaker. This would be equivalent to shorting the outputs of the amplifier together and would shut the unit down immediately.

! When plugging and unplugging speaker outputs, shut the amplifier OFF to avoid over-current shutdown of the unit.

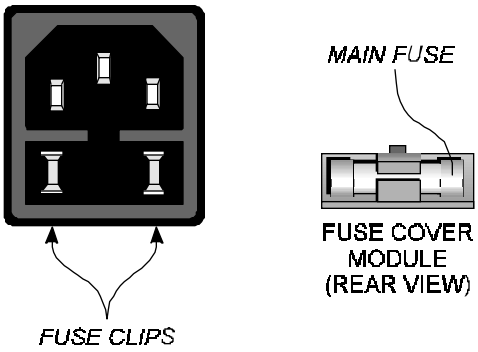
Fuse Replacement

Always replace the main fuse with an identically rated replacement. Your Velocity 100 amplifier uses a 5x20mm, 4A amp, 250V slow-blow fuse (2A, 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.



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

Note: A small compartment is also provided within the fuse cover module for storing a spare fuse.



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.

Specifications

Input Impedance	*10KΩ*
Maximum Input	*+20dBu*
Maximum Gain	*26dB*
Dynamic Range	*over 100dB*
Frequency Response	*±1dB, 20Hz - 20kHz*
Output Power	*55 watts @ 4Ω*
(both channels driven @ 1% THD)	*40 watts @ 8Ω*
	28 watts @ 16Ω
Power Consumption	*402 watts, 3.5A @ 115VAC*

**** CE Approved ****

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