

ROCKTRON
TECHNOLOGY FOR GUITARISTS

UTOPIA

G1000



**PROFESSIONAL GUITAR SYSTEM
MANUAL**

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 UTOPIA G100 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 and output connections. This will help insure compliance with the Directive(s).



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1. Introduction

Rocktron's Utopia G100 Professional Guitar System provides guitar tone and effects processing for the next generation so you can be the player you want to be. You will not find your Pop's old guitar amps and cabinets *modeled* in Utopia! What you will find is a compact powerhouse of great sounds ready to rock. Rocktron stands alone with amazing distortion and effects in the G100 - everything you need to create your own *signature sound* and define a new generation of playing. Play in Utopia, not your Daddy's band!

Easy to use and operate.

Motorola 24 Bit DSP Engine

Four channels of tone (Clean, Texas, British, Mega) with 128 preset sounds (64 factory preset sounds and 64 user presets).

Full bandwidth effects. Pre-effects include wah, phaser, compressor. Post effects include chorus, flanger, tremolo, delay, reverb.

Rugged professional grade chassis and expression control pedal made from metal.

Rocktron exclusives include state-of-the-art Speaker Simulation (for ultimate recording capabilities), Variac (tube sag emulation) and HUSH noise reduction.

Easy to read Cool Blue LCD display.

64 Fully Programmable Presets.

Stereo Outputs

Heavy Duty Headphone Output

Auxiliary (MP3/CD/IPOD) Input

Store Button with LED

Bank UP, Bank DOWN, and RECALL footswitches

For a thorough explanation of the Utopia G100 and its features, please read this manual carefully and keep it for future reference. After removing the Utopia G100 from the box, save all packing materials in case it becomes necessary to ship the unit.

Motorola is a trademark of Motorola Corporation. HUSH is a registered trademark of GHS Corporation.

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/adaptor 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.

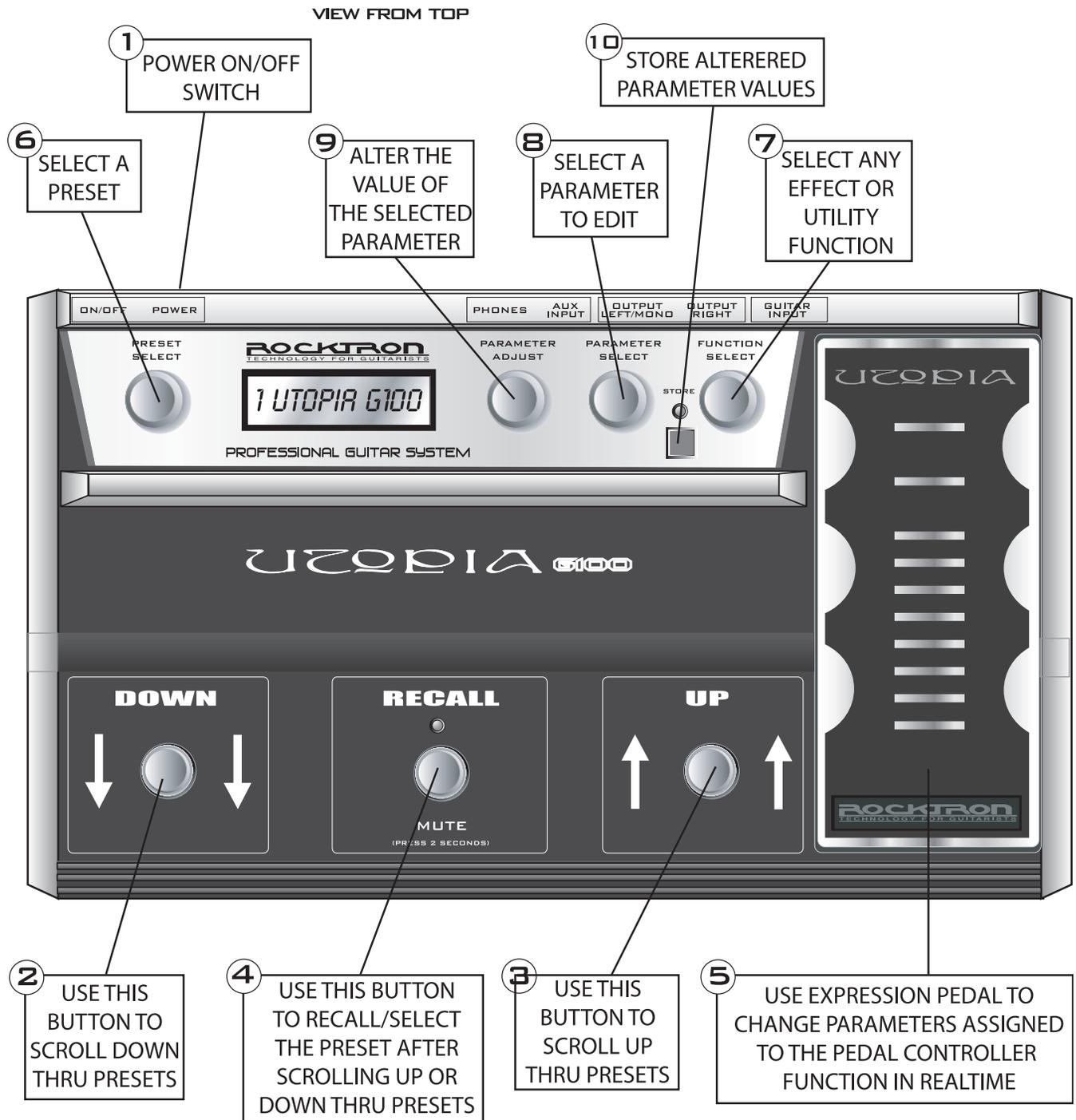
Refer all service to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply or plug is damaged, liquid has been spilled or objects have fallen into the apparatus or if the apparatus has been exposed to rain or moisture, does not operate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

2. Quick Reference

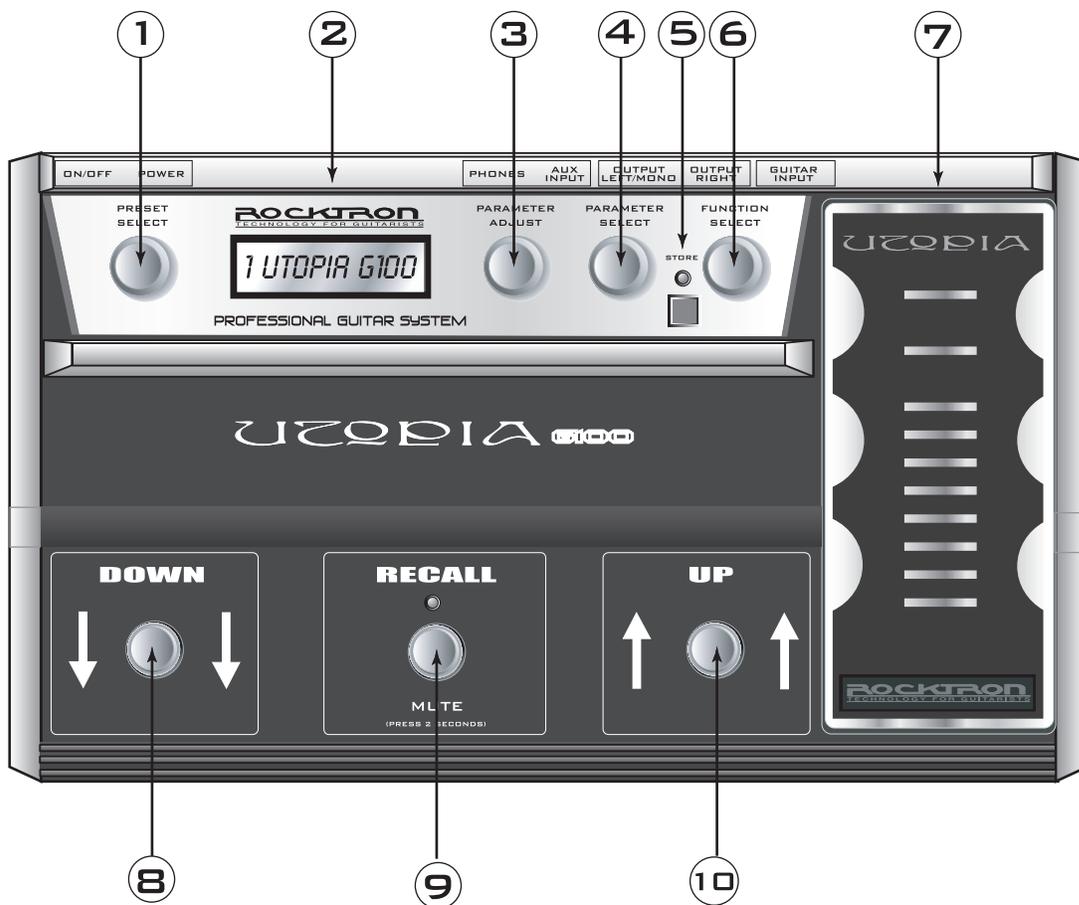


Quick Reference....continued...

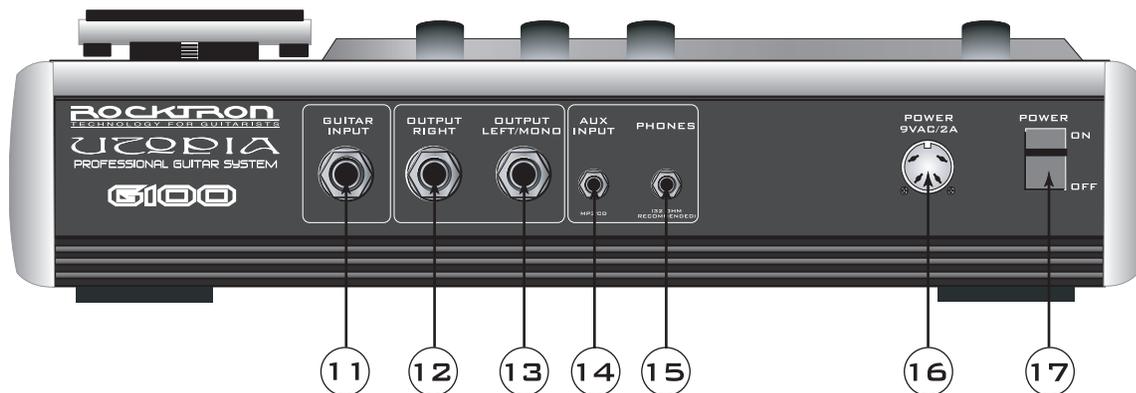
- STEP 1 Turn ON the UTOPIA G100.
- STEP 2 Scroll through the presets by pressing the DOWN button. You may also do this by following STEP 3.
- STEP 3 Scroll through the presets by pressing the UP button. You may also do this by following STEP 2.
- STEP 4 Recall the preset you have scrolled to by pressing the RECALL button. NOTE, holding the RECALL button down for two seconds will MUTE the output of the UTOPIA G100. To disengage the MUTE, hold the RECALL button down for two seconds.
- STEP 5 Use the built-in expression pedal to change the parameter(s) in real time that are assigned to the pedal controller function,
- STEP 6 You may also select a preset by turning the PRESET SELECT knob. Note, that this knob automatically recalls the preset, you do NOT need to press the recall button.
- STEP 7 Turn the FUNCTION SELECT knob to the desired effect or utility function.
- STEP 8 Turn the PARAMETER SELECT knob to the parameter you wish to alter under the selected effect or utility function
- STEP 9 Use the PARAMETER ADJUST knob to select the new parameter value.
- STEP 10 Press the STORE button to start the storing procedure. If you wish to save the altered preset in the current preset location, press the STORE button a second time. If you wish to store the altered preset in a different preset location, turn the PRESET control to the desired preset number, then press STORE a second time.

3. UTOPIA G100 Top and Back Panels

VIEW FROM TOP



BACK PANEL VIEW



3. UTOPIA G100 Top and Back Panels....continued.....

1 PRESET SELECT control

Turning this knob scrolls through the successive presets. The presets are automatically recalled.

2 DISPLAY panel

The DISPLAY shows the preset names, functions and parameters that are selected.

3 PARAMETER ADJUST control

This knob is used to adjust a displayed parameter value.

5 STORE button and STORE LED

This button is used to store values into the G100's memory when altered. See "**Storing Changed Preset Parameters**" for more information on this procedure.

4 PARAMETER SELECT control

When adjusting parameter values, turning this knob will scroll through the available parameters under the current function heading. In the "Title Edit" function, this knob will scroll through the character locations to be edited.

6 FUNCTION SELECT control

This knob allows access to each function of the UTOPIA G100 depending on which configuration is currently recalled.

7 EXPRESSION PEDAL

The built-in expression pedal will change parameter(s) that have been assigned to the pedal in the Pedal Controllers function. Use the pedal to increase or decrease volume levels, or for a pitch shifting whammy effect, or to bring in reverbs and delays. There are many uses for this pedal. Please see the Pedal Controllers section of this manual for information how to program the expression pedal for many cool effects.

8 DOWN button

This button allows you to scroll DOWN through the available presets. Press the button once to move one preset down, or press and hold down the button to auto-scroll DOWN. Note that once you have reached your desired preset, the preset name on the screen will be flashing but NOT recalled. The original preset will still be active. To recall or activate the desired preset you will need to press the "RECALL" button.

9 RECALL/MUTE button

This button allows you RECALL or activate the preset you have scrolled to using the DOWN or UP button. Pressing and holding down this button for two seconds will MUTE the output of the UTOPIA G100. To disengage the MUTE function, press the RECALL/MUTE button again.

3. UTOPIA G100 Top and Back Panels....continued.....

10 UP button

This button allows you to scroll UP through the available presets. Press the button once to move one preset UP, or press and hold down the button to auto-scroll UP. Note that once you have reached your desired preset, the preset name on the screen will be flashing but NOT recalled. The original preset will still be active. To recall or activate the desired preset you will need to press the "RECALL" button.

11 INPUT jack

This standard, mono 1/4" jack is used to provide input to the unit.

12 OUTPUT RIGHT jack

This 1/4" jack provides the right output of the UTOPIA G100 for use in stereo situations, such as direct recording, plugging into a PA system, two guitar amplifiers, etc.

13 OUTPUT LEFT/MONO jack

This 1/4" jack provides the left output of the UTOPIA G100. This output is a MONO output and should be used in mono situations, such as plugging into the front of an amplifier. For stereo situations you must also use the OUTPUT RIGHT Jack.

14 AUX INPUT Jack

This 1/8" stereo jack provides an Auxiliary input allowing you to plug a MP3 Player, CD Player, etc. so that you can jam along with your favorite tunes.

15 PHONES jack

This 1/8" stereo jack provides a stereo output allowing you to practice in private. Note that you need to activate the "STEREO" parameter in the GLOBAL Function in order to have a stereo sound. Additionally, it is recommended that you set the Speaker Simulator in the GLOBAL Function to "LOCK BOTH" as well. Note, this setting will be used until you turn OFF the UTOPIA G100. The SPEAKER SIMULATOR setting used in each preset may be modified per preset while in this mode. See page 18 for more information on the GLOBAL Function.

16 POWER jack

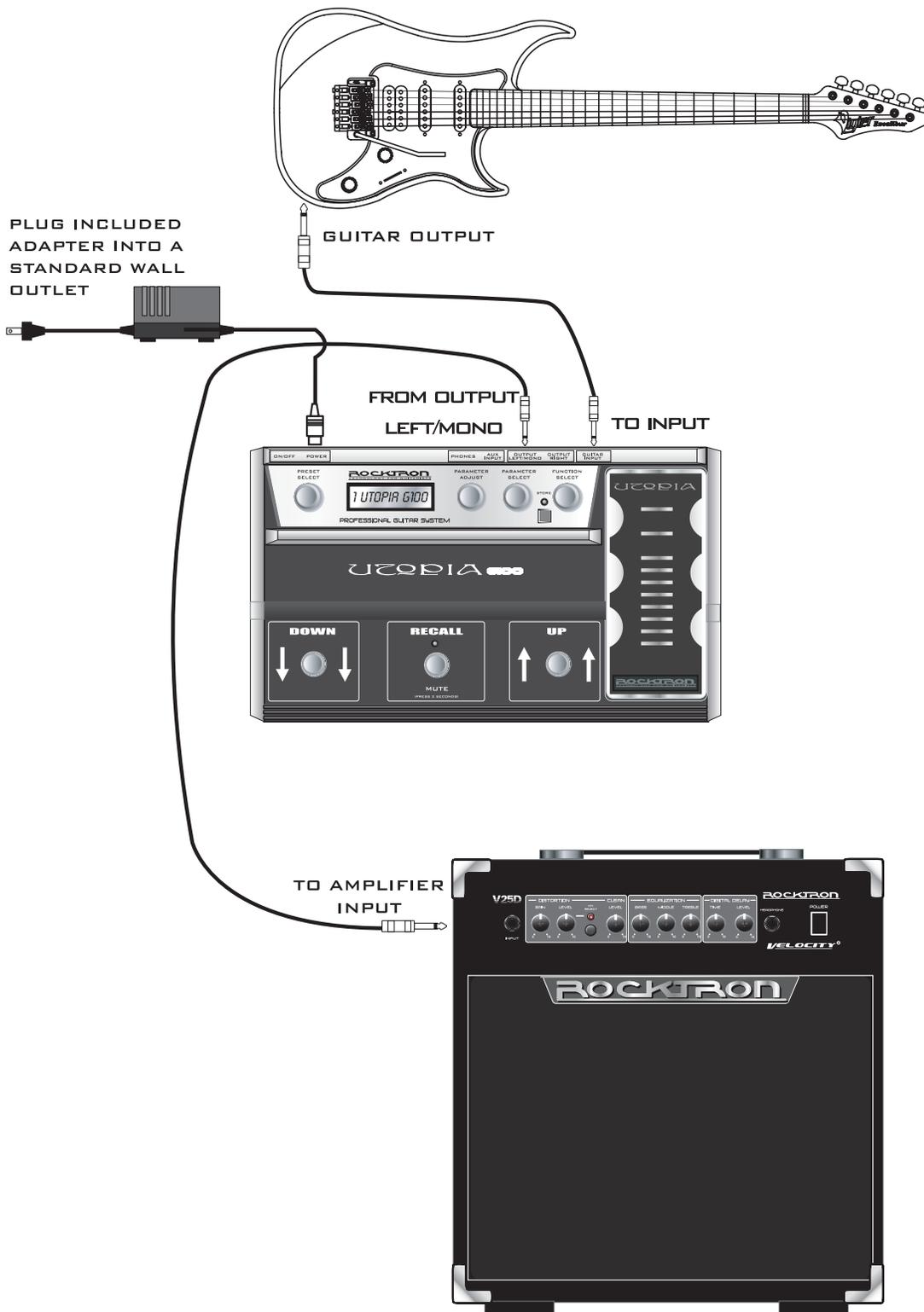
This 4-pin DIN connector accepts power from the 9VAC/2A adaptor supplied with the unit.

17 POWER Switch

Use this switch to turn the UTOPIA G100 On and Off.

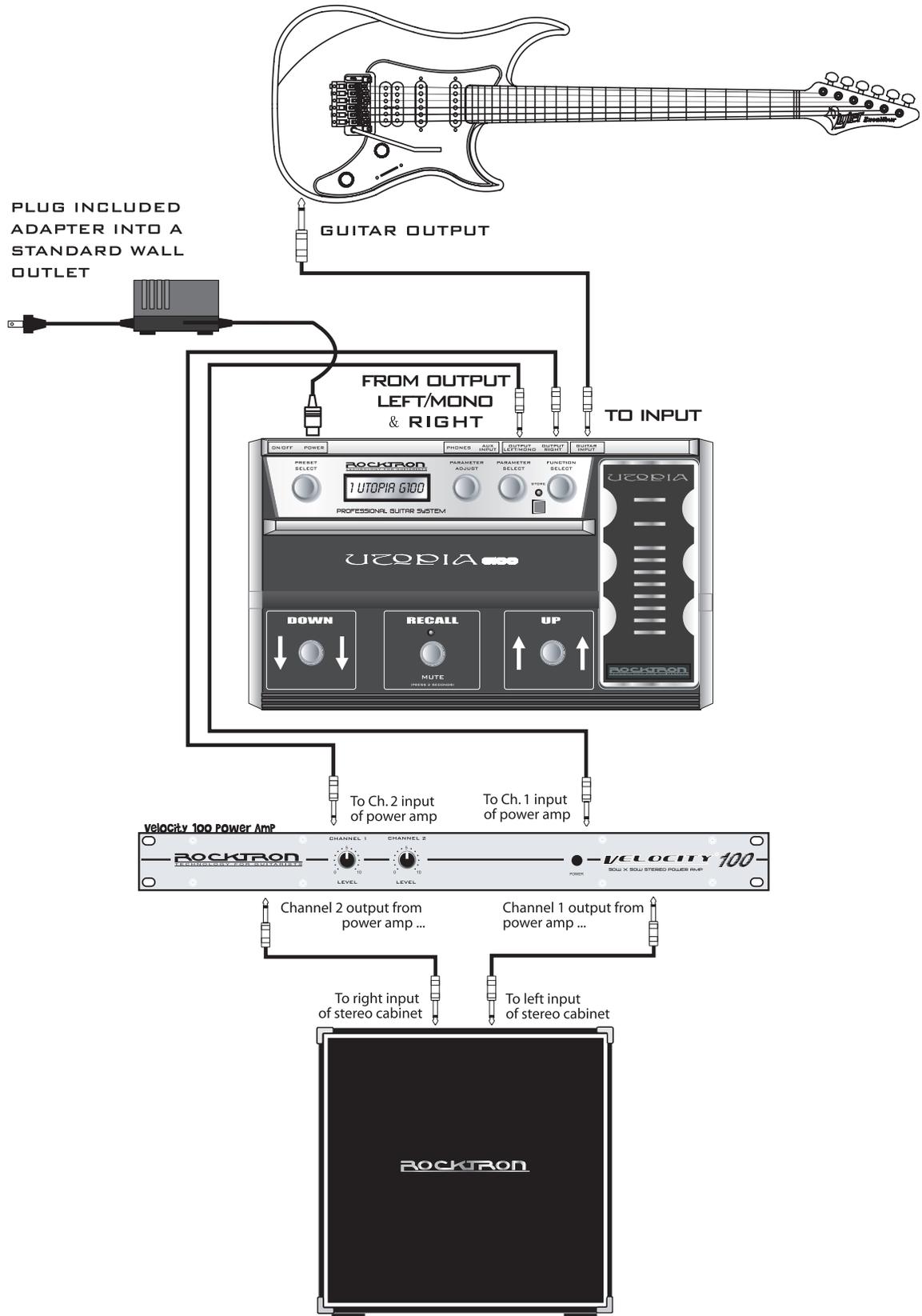
4. Connections

Standard Connection with a Guitar Amplifier



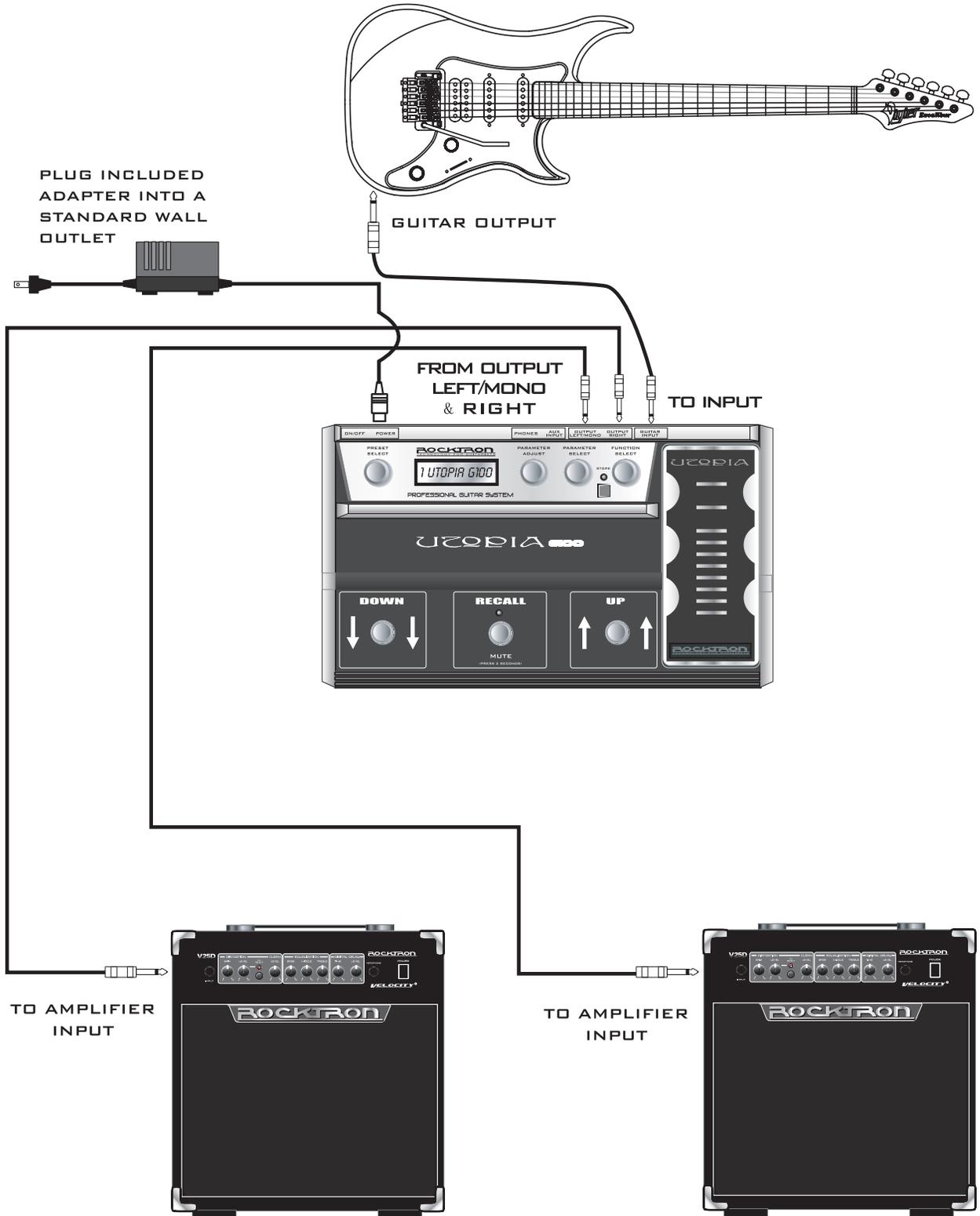
4. Connections....continued.....

Connection to a Stereo Power Amplifier



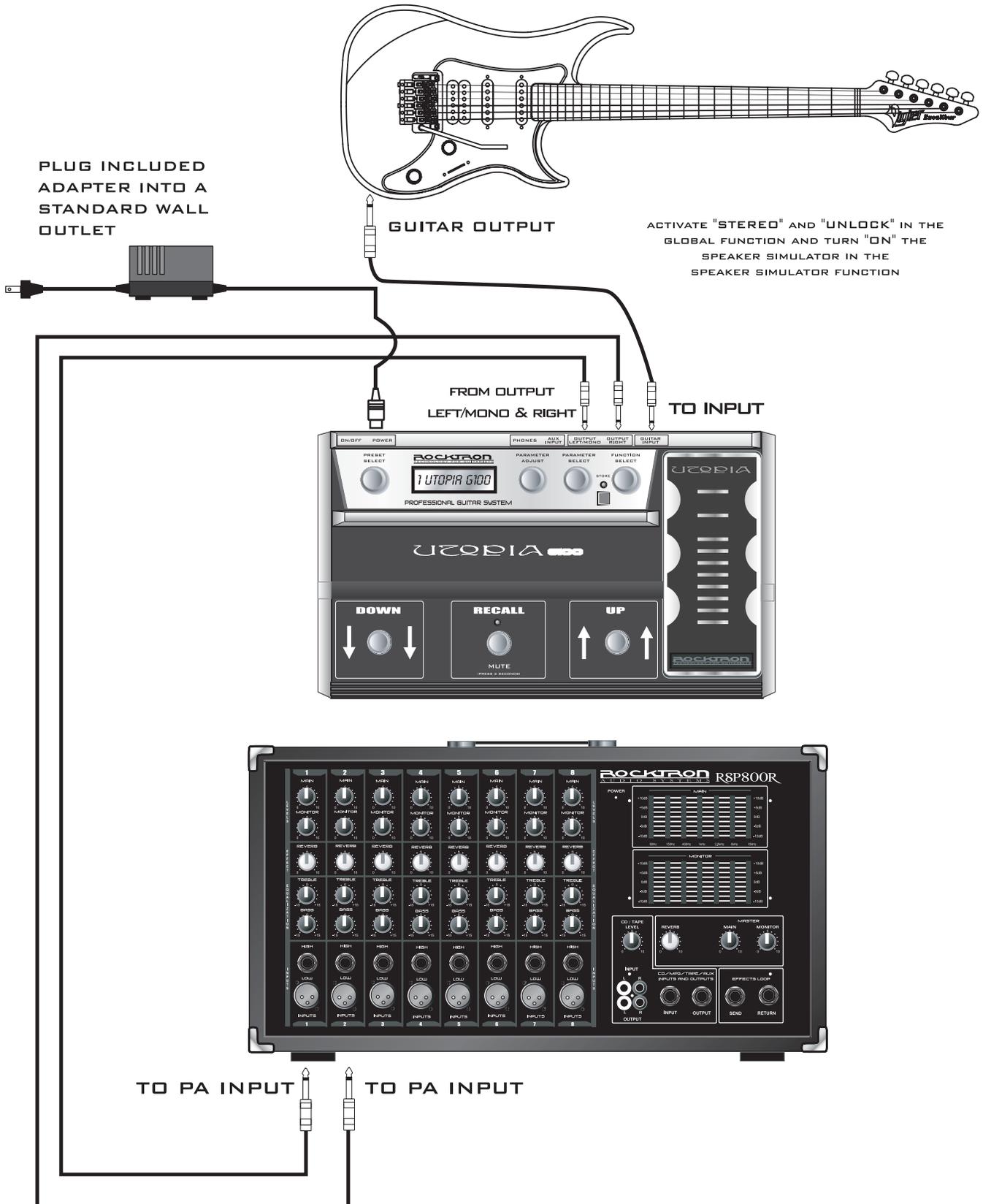
4. Connections...continued.....

Connection in Stereo to Two Guitar Amplifiers.



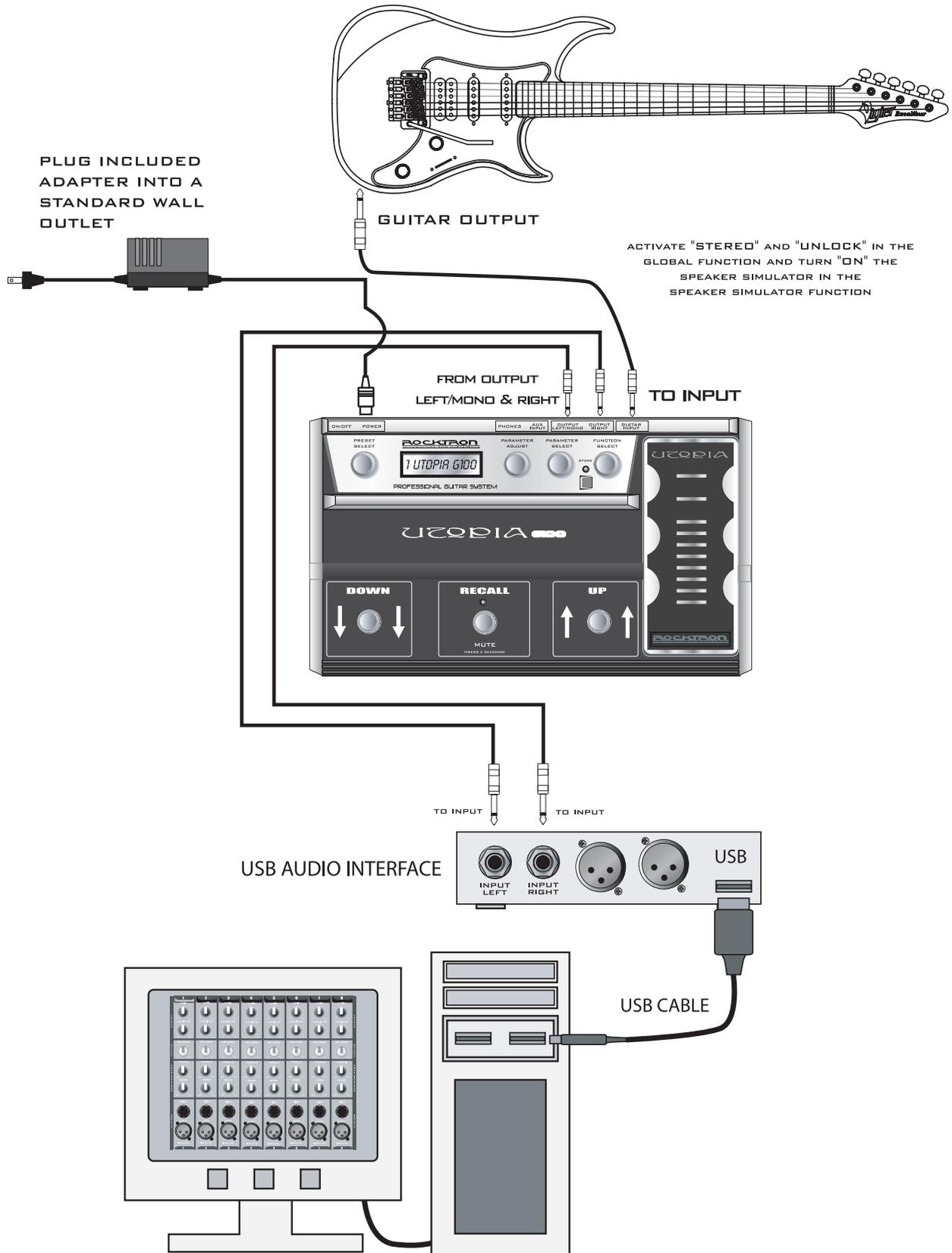
4. Connections....continued.....

Connection to a PA System



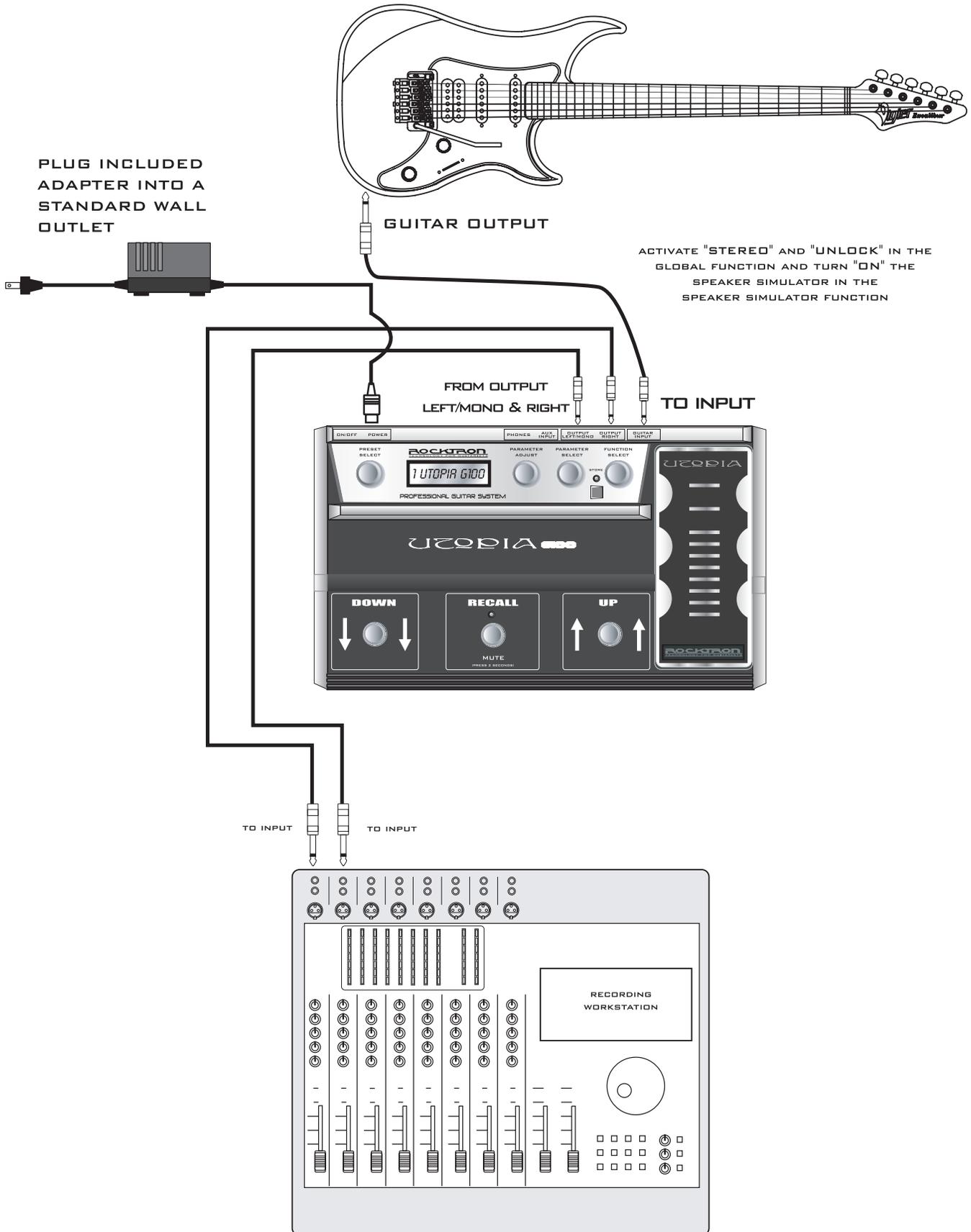
4. Connections....continued.....

Connection to a Computer



4. Connections....continued.....

Connection to a Recording Workstation



5. Operating Format

The G100 provides 128 stored sounds called presets. The first 64 presets can be changed and saved by the user. The second 64 presets (65-128) are not changeable. Any of the 128 presets can be called up at any time via the PRESET knob, or by using the UP/DOWN/RECALL switches.

The root of each preset's sound is its configuration. The configuration determines both the effects available for a given preset and the order in which those effects are executed. The Utopia G100 provides 6 fixed configurations to achieve a wide array of preset sounds, any of which may be instantly called up at any time.

Utopia G100 Configurations:

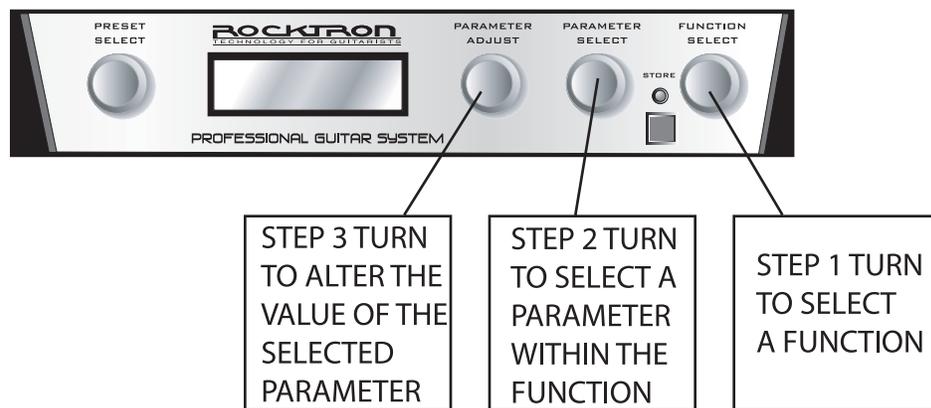
PREAMP • CHORUS • DELAY • REVERB	(PRE CHR DL REV)
PREAMP • FLANGE • DELAY • REVERB	(PRE FLA DL REV)
PREAMP • TREMOLO • DELAY • REVERB	(PRE TRE DL REV)
PREAMP • PITCH SHIFT • DELAY • REVERB	(PRE PSH DL REV)
WAH • PREAMP • DELAY • REVERB	(WA PRE DL REV)
PHASER • PREAMP • DELAY • REVERB	(PHA PRE DL REV)

The configuration of each preset can be changed from within the desired preset. For more information on selecting a configuration, see *Selecting a Configuration* in the section titled "**Operating the Utopia G100**".

UTOPIA G100 Functions and Parameter Descriptions

Each UTOPIA G100 preset is divided up into individual blocks called functions (such as "Mixer", "Reverb", etc.). Within each function of each configuration is a set of controls which allow you to manipulate various aspects of that function. These controls are called parameters. It is the setting of each of the parameters which determines the overall sound of each preset.

The UTOPIA G100 is set up to allow you to first access each function (via the FUNCTION SELECT knob), then the parameter list for each function (via the PARAMETER SELECT knob) and finally the adjustable value for each parameter (via the PARAMETER ADJUST knob).



The functions available for each preset are dependent upon which configuration is currently recalled. The remainder of this section will describe each of the effect-based functions and the associated adjustable parameters they provide.

The remaining functions are utility-based, and are described in the section titled "**Operating the UTOPIA G100**".

GLOBAL Function

The first function displayed after turning the FUNCTION SELECT knob is the Global function. The parameters provided in this function affect all presets (i.e. the settings stored for these parameters are the same for all presets).

The PARAMETER SELECT knob will allow you to access these Global parameters:

OUTPUT	The OUTPUT parameter determines whether the output of the UTOPIA G100 is a stereo (left and right) signal or two mono signals.
SPKR SIM	<p>This SPEAKER SIMULATOR parameter under the Global function allows you to globally (all presets) set the Speaker Simulator into the following modes:</p> <p>UNLOCK - Bypasses all Speaker Simulation on all presets leaving the outputs full range.</p> <p>LOCKOFF - If you have the Speaker Simulator "ON" in the Speaker Simulator Function the Speaker Simulator will turn on when that preset is selected.</p> <p>LOCK L (LEFT OUTPUT) - Locks the Speaker Simulator "ON" in the LEFT OUTPUT and leaves the Right OUTPUT full range. Allows you to use the left output for direct recording or direct to a PA and the right output to your amp at the same time to perform live.</p> <p>LOCK B (BOTH OUTPUTS) - Locks the Speaker Simulator "ON" in both Left and Right Outputs. This is the ideal setting to use when using headphones.</p>
HUSH OFFSET	The HUSH OFFSET parameter allows you to globally (all presets) adjust the HUSH® Expander Threshold. This means that if this parameter is altered from 0(dB) to +3(dB), the Expander Threshold will be 3dB higher for all presets. This feature can be useful when switching from a quiet guitar with passive electronics to a noisy guitar with active electronics, as the active guitar would require a higher Threshold level in all presets.
MASTER VOLUME	<p>The MASTER VOLUME parameter allows you to globally (all presets) adjust the output level of the G100. It provides up to +6dBu more gain and up to -40dBu of attenuation.</p> <p>This is most helpful when using headphones to adjust the output level to a comfortable level quickly. When patching the G100 outputs directly into a power amp the extra +6dBu of gain can be used for more input drive.</p>

NOTE: If you would like to save any changes made to the GLOBAL PARAMETERS you must STORE them at this time, before leaving the GLOBAL FUNCTION.

MIXER Function

The next function displayed after turning the FUNCTION SELECT knob clockwise is the Mixer function. The Mixer function parameters are included in all presets -- regardless of which configuration is currently recalled -- although the parameter values stored in this function are only for the currently recalled preset.

This digital mixer allows you to control most signal levels pertaining to each preset's configuration and stores these levels for each preset.

The PARAMETER SELECT knob will allow you to access these Mixer parameters:

VOLUME	The VOLUME parameter determines the overall signal level of the current preset.
LEFT OUT LVL	The LEFT OUT LEVEL parameter allows you alter the level of the left channel output of the current preset independent of the right channel.
RIGHT OUT LVL	The RIGHT OUT LEVEL parameter allows you alter the level of the right channel output of the current preset independent of the left channel.
MIX DIR/EFF	The DIR/EFF MIX parameter is used to define the ratio of direct signal level to effect (Chorus, Flange, Pitch Shift) signal level.
DIR PAN	The DIRECT PAN parameter allows you to pan the direct signal to the left or right.
DELAY LVL	The DELAY LEVEL parameter determines the overall level of the delayed signal at the output relative to the direct signal and other effect signals. This parameter can also be accessed from the Delay function parameter list.
REVERB LVL	The REVERB LEVEL parameter determines the level of the reverb signal at the output relative to the direct signal and other effect signals. This parameter can also be accessed from the Reverb function parameter list.

PREAMP Function

The PREAMP function is accessible in all configurations. The preamp stage offers 4 channel choices ranging from clean to high gain for maximum sustain and distortion.

The PARAMETER SELECT knob will allow you to access these PREAMP parameters:

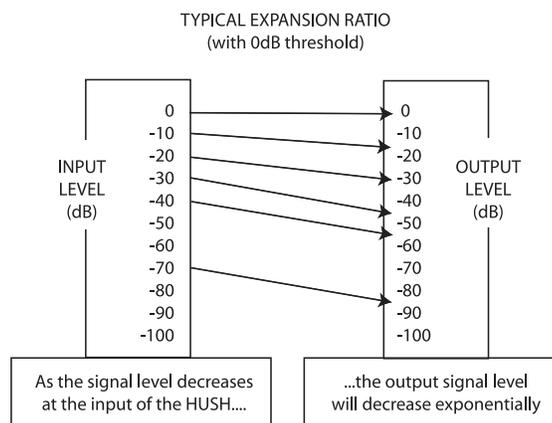
CHANNEL	The CHANNEL parameter chooses one of the four (4) PREAMP types: Clean, Texas, British, Mega.
GAIN	The GAIN parameter determines the gain value in the distortion stage.
VARIAC ADJUST	The VARIAC ADJUST parameter adjusts the level at which the preamp stage in the UTOPIA G100 begins to distort. A Variac is a voltage attenuating device that plugs into an AC wall outlet and adjusts the voltage level to any device which is plugged into it. For years, many guitarists have plugged their amplifier heads into a Variac and reduced the voltage coming into the amplifier from the AC wall outlet. This allows the amplifier tubes to reach saturation at a lower input level and increases the gain produced. The VARIAC ADJUST parameter operates in a similar manner as a conventional Variac -- where lowering the parameter value lowers the level at which saturation will take place.
BASS	The BASS parameter adjusts the amount of low frequency information at the output of each preset.
MID	The MID parameter adjusts the amount of mid frequency information at the output of each preset.
TREBLE	The TREBLE parameter adjusts the amount of high frequency information at the output of each preset.
PRESENCE	The PRESENCE parameter also adjusts the amount of high frequency information at the output of each preset.
BRIGHT	The BRIGHT parameter is displayed only when channel 1 (Clean) is active, and allows you to add extra brightness to the clean channel when switched on.
SCOOP	The SCOOP parameter is displayed only when Channel 4 (MEGA) is active, and provides a fixed scoop of the mid frequencies.
MASTER	The MASTER parameter determines the overall signal level coming out of the preamp section.

HUSH® Function

The HUSH® function is accessible in all presets - regardless of the configuration currently recalled.

HUSH is a patented single-ended noise reduction system. The HUSH system contained in the UTOPIA G100, though modeled after the latest analog HUSH design, is a fully digital implementation achieved through Digital Signal Processing (DSP).

The low level expander of the HUSH system operates like an electronic volume control. The analog version of the HUSH utilizes a voltage-controlled amplifier (VCA) circuit which can control the gain between the input and the output from unity to 30, 40 or even 50(dB) of gain reduction. When the input signal is above the user preset threshold point, the VCA circuit remains at unity gain. (This means that the amplitude of the output signal will be equal to that of the input signal.) As the input signal level drops below the user preset threshold point, downward expansion begins. At this point the expander acts like an electronic volume control and gradually begins to decrease the output signal level relative to the input signal level. As the input signal drops further below the threshold point, downward expansion increases. A drop in the input level by 20(dB) would cause the output level to drop approximately 40(dB) (i.e., 20(dB) of gain reduction). In the absence of any input signal, the expander will reduce the gain so that the noise floor becomes inaudible.



The HUSH circuit is located after the A/D converter in the signal chain to reduce any noise generated from the guitar and the A/D converter. This ensures a quiet input signal to the preamp section. Because the preamp section of the UTOPIA G100 is digital, it is virtually noise-free (even for the high-gain channels). Therefore, a quiet input signal to the preamp will result in a quiet output signal.

The PARAMETER SELECT knob will allow you to access these Hush parameters:

HUSH I/O

The HUSH I/O parameter simply determines whether the HUSH® circuit is active for the current preset.

HUSH THRESH

The HUSH THRESHOLD parameter determines the level at which downward expansion begins. For example, if the HUSH THRESHOLD was set at -20(dB) and the input signal dropped below -20(dB), downward expansion would begin.

SPEAKER SIMULATOR Function

The SPEAKER SIMULATOR function is included in all presets and provides a realistic approximation of a miked speaker cabinet for applications involving connecting the UTOPIA G100 directly to a mixing board, recording system or other full range system.

NOTE: *The parameters provided in this function are operational only when the SPKR SIM parameter under the GLOBAL FUNCTION is stored UNLOCK, LOCK L or LOCK B.*

The PARAMETER SELECT knob will allow you to access these SPEAKER SIMULATOR parameters:

SPKR SIM	The SPEAKER SIMULATOR parameter allows you to select whether the Speaker Simulator is on for BOTH outputs, on for only the LEFT output or OFF.
SPKR TYPE	The SPEAKER TYPE parameter determines the type of speaker to be simulated. 15", 12", 10", 8" and full range speakers are available.
MIC POSITION	The MIC POSITION parameter simulates a microphone placed anywhere from the center of the speaker cone out to the edge of the cone. Positive parameter values simulate moving the microphone toward the center of the speaker, while negative values move it to the edge.
REACTANCE	The REACTANCE parameter simulates the characteristics of the interaction between a tube amplifier and a guitar speaker cabinet. The higher the parameter value selected, the more these characteristics will be apparent. Negative values of reactance can be used to simulate an open-back cabinet.

COMPRESSOR Function

The COMPRESSOR function is available in all configurations. This function allows you to compress the signal prior to the distortion stage. Compression is often used to maintain an even level when using clean tones, and also to increase sustain when using distorted tones.

The PARAMETER SELECT knob will allow you to access these COMPRESSOR parameters:

COMPRESSOR	The COMPRESSOR IN/OUT parameter determines whether the compressor is active for the current preset.
COMP THRESH	The COMPRESSOR THRESHOLD parameter determines the input level (in dB) at which compression will begin. Lower settings of this parameter will result in more compression.
COMP ATTACK	The COMPRESSOR ATTACK parameter determines the speed (in milliseconds) in which the compressor will reach its maximum compression level after the input signal has exceeded the threshold level (set by the COMPRESSOR THRESHOLD parameter).
COMP RELEASE	The COMPRESSOR RELEASE parameter determines the speed in which compression will cease after the input signal has dropped below the threshold level.

WAH-WAH Function

The WAH-WAH function is available only in configurations which display "WAH" in the configuration title.

The UTOPIA G100 has an internal wah-wah which allows for the built-in expression pedal to be used as a wah-wah pedal when selected in the Pedal Controllers function. To do this, you will need to activate this in the "PEDAL CONTROLLERS" function and assign the wah frequency sweep parameters (See "PEDAL CONTROLLERS" for more information)

The PARAMETER SELECT knob will allow you to access these WAH-WAH parameters:

<i>WAH-WAH</i>	The WAH-WAH parameter determines whether the wah-wah is active for the current preset.
<i>MIX DIR/EFF</i>	The DIR/EFF MIX parameter is used to define the ratio of direct signal level to WAH-WAH signal level.
<i>WAH FREQ</i>	The WAH FREQUENCY parameter allows you to manually sweep the frequency range of the wah-wah via the PARAMETER ADJUST control. Selecting a frequency for this parameter and storing the WAH-WAH parameter IN allows you to use the wah-wah as a fixed wah.

PHASER Function

The PHASER function is available only in configurations displaying "PHA" in the configuration title.

Phase shifting involves splitting the input signal into two signals, then shifting the phase of different frequencies of one signal and mixing it back with the original signal.

The PARAMETER SELECT knob will allow you to access these PHASER parameters:

<i>PHASER</i>	The PHASER IN/OUT parameter determines whether the Phaser is active for the current preset.
<i>MIX DIR/EFF</i>	The DIR/EFF MIX parameter is used to define the ratio of direct signal level to PHASER signal level.
<i>DEPTH</i>	The DEPTH parameter determines the modulation depth of the phase shift effect. Higher parameter settings result in the sweep of the filtering effect occurring over a wider frequency range.
<i>RATE</i>	The RATE parameter determines the speed at which the phase shifted signal is modulated.
<i>RESONANCE</i>	The RESONANCE parameter adds feedback to the Phaser so that it has a more pronounced effect.
<i>STAGES</i>	The STAGES parameter determines how many stages of phase shift are to be active. A parameter setting of "4" produces a result similar to a vintage Phase 90, while a setting of "6" emulates other phaser pedals.

FLANGER Function

The FLANGER function is available only in configurations displaying "FLA" in the configuration title.

Flanging involves splitting the input signal into at least two individual delayed signals (Voice 1 and voice 2), then modulating these delayed signals so that, when summed back with the direct signal, phase cancellations will occur at some frequencies while peaks in the response will occur at others.

The PARAMETER SELECT knob will allow you to access these FLANGER parameters:

FLANGER	The Flanger IN/OUT parameter determines whether the Flanger is active for the current preset.
LEVEL 1	The LEVEL 1 parameter determines the volume of Voice 1 relative to Voice 2. <i>Tip: Keep the settings of these levels high and use the DIR/EFF mix parameter in the Mixer function to control the overall amount of flanged signal.</i>
PAN 1	The PAN 1 parameter allows you to pan Voice 1 to the left or right channel.
DEPTH 1	The DEPTH 1 parameter adjusts the amount of modulation of Voice 1 . Lower DEPTH settings produce more subtle effects, while higher settings will result in a more drastic effect.
RATE 1	The RATE 1 parameter determines the speed at which Voice 1 is modulated.
LEVEL 2	The LEVEL 2 parameter determines the volume of Voice 2 relative to Voice 1.
PAN 2	The PAN 2 parameter allows you to pan Voice 2 to the left or right channel.
DEPTH 2	The DEPTH 2 parameter adjusts the amount of modulation of Voice 2. Lower DEPTH settings produce more subtle effects, while higher settings will result in a more drastic effect.
RATE 2	The RATE 2 parameter determines the speed at which Voice 2 is modulated.
REGEN	The REGENERATION parameter determines how much of the delayed output signal is fed back into the input. More regeneration produces a more pronounced "jet airplane" type of effect.

TREMOLO Function

The TREMOLO function is available only in configurations displaying "TRE" in the configuration title.

The Tremolo effect continuously varies the volume of the signal.

The PARAMETER SELECT knob will allow you to access these TREMOLO parameters:

TREMOLO I/O	The TREMOLO IN/OUT parameter determines whether the Tremolo is active or bypassed for the current preset.
LOCATION	The LOCATION parameter determines whether the Tremolo is located Pre-Reverb or Post-Reverb. Most vintage amplifiers configured the Tremolo (or vibrato) Post-Reverb.
DEPTH	The DEPTH parameter determines the amount of modulation for the Tremolo signal. Lower DEPTH settings produce more subtle tremolo effects, while higher settings will result in a more extreme tremolo effect.
RATE	The RATE parameter determines the speed at which the tremolo signal modulates (or increases and decreases in volume).
SHAPE	The SHAPE parameter determines the waveshape of the tremolo signal. Selecting a different waveshape produces a different tremolo effect.

PITCH SHIFT Function

The PITCH SHIFT function is available only in configurations displaying "PSH" in the configuration title.

Pitch Shifting is used to change the pitch of the input signal to produce a harmony note based on the input signal. The harmony voice may be of any fixed interval—up to one octave above the input signal to two octaves below—and is selected in 20-cent increments. Fine adjustment can be made in one cent (1/ 100th semitone) increments.

The PARAMETER SELECT knob will allow you to access these PITCH SHIFT parameters:

<i>PITCH SHIFT</i>	The PITCH SHIFT IN/OUT parameter determines whether the Pitch Shifter is active or bypassed for the current preset.
<i>LEVEL</i>	The LEVEL parameter determines the volume of the pitch shifted signal. The DIR/EFF MIX parameter in the Mixer function also affects this volume.
<i>PAN</i>	The PAN parameter allows you to pan the shifted signal to the left or right channel.
<i>PITCH</i>	<p>The PITCH parameter selects what harmony note the UTOPIA G100 will produce based on the input note. The value displayed for this parameter represents the number of cents that the signal will be shifted (adjustable in 20-cent increments). Each 100 cents (or five 20-cent steps) above or below "0" represents the number of half-steps the shifted signal will be from the input signal.</p> <p>This parameter is adjustable from "-2400" to "+1200", where "-2400" = two octaves below the input signal, "0" = unison and "+1200" = one octave above the input signal. Refer to the table below to determine the cent value for each fixed interval.</p>
<i>FINE</i>	The FINE parameter allows for adjustment in 1-cent steps for fine adjustment of the harmony note.
<i>SPEED</i>	The SPEED parameter determines the amount of time delay used in the shifting process. SLOW results in the longest delay and the highest quality shifted signal (especially at larger amounts of pitch shift), FAST results in the least delay, but the lowest quality shifted signal. This setting should only be used for slight amounts of pitch shift.

PITCH SHIFT INTERVALS

PARAMETER VALUE	CORRESPONDING INTERVAL
+1200	1 Octave
+1100	Major 7th
+1000	minor 7th
+900	Major 6th
+800	minor 6th
+700	perfect 5th
+600	diminished 5th
+500	perfect 4th
+400	Major 3rd
+300	minor 3rd
+200	Major 2nd
+100	minor 2nd
0	unison
-100	Major 7th
-200	minor 7th
-300	Major 6th
-400	minor 6th
-500	perfect 5th
-600	diminished 5th
-700	perfect 4th
-800	Major 3rd
-900	minor 3rd
-1000	Major 2nd
-1100	minor 2nd
-1200	1 octave
-1300	1 octave plus a Major 7th
-1400	1 octave plus a minor 7th
-1500	1 octave plus a Major 6th
-1600	1 octave plus a minor 6th
-1700	1 octave plus a perfect 5th
-1800	1 octave plus a diminished 5th
-1900	1 octave plus a perfect 4th
-2000	1 octave plus a Major 3rd
-2100	1 octave plus a minor 3rd
-2200	1 octave plus a Major 2nd
-2300	1 octave plus a minor 2nd
-2400	2 octaves

Voices above the input signal

Equal to the input signal

Voices below the input signal

NOTE: There are 5 steps of the parameter adjust control between each of the intervals shown above (each step equals 20 cents). This allows for smooth pitch change when used with the built-in expression pedal

CHORUS Function

The CHORUS function is available only in configurations displaying "CHR" in the configuration title.

The Chorus effect in the UTOPIA G100 is produced by using two delayed signals (Voice 1 and Voice 2), detuning these delayed signals (slightly changing their pitch), then modulating the detune effect so that the amount of pitch detune is constantly varying. Using different detune amounts, modulation rates, modulation depths and pan settings for each delayed signal will produce a greater perceived spaciousness.

The PARAMETER SELECT knob will allow you to access these CHORUS parameters:

CHORUS	The CHORUS parameter determines whether the Chorus is active or bypassed for the current preset.
LEVEL 1	The LEVEL 1 parameter determines the volume of Voice 1 in relation to Voice 2. The DIR/EFF MIX parameter in the Mixer function also determines the Chorus level.
PAN 1	PAN 1 parameter allows you to pan Voice 1 to the left or right channel.
DEPTH 1	The DEPTH 1 parameter adjusts the amount of modulation of the Voice 1 signal. A lower depth setting will produce a more subtle detune effect, while a higher setting will produce a more extreme detuning of Voice 1.
RATE 1	The RATE 1 parameter determines the sweep speed (or the speed at which Voice 1 is modulated). Lower parameter settings will result in slower speeds, while higher settings will result in faster speeds.
DELAY 1	The DELAY 1 parameter allows you to select the minimum delay time (in milliseconds) for Voice 1. This delayed signal (along with Voice 2) is detuned and modulated to produce the chorus effect. Using shorter delay times will result in a tighter sounding chorused signal, while longer delay times will produce a larger ambient effect.
LEVEL 2	The LEVEL 2 parameter determines the volume of Voice 2 in relation to Voice 1.

PAN 2 PAN 2 parameter allows you to pan Voice 2 to the left or right channel.

DEPTH 2 The DEPTH 2 parameter adjusts the amount of modulation of the Voice 2 signal. A lower depth setting will produce a more subtle detune effect, while a higher setting will produce a more extreme detuning of Voice 2.

RATE 2 The RATE 2 parameter determines the sweep speed (or the speed at which Voice 2 is modulated). Lower parameter settings will result in slower speeds, while higher settings will result in faster speeds.

DELAY2 The DELAY 2 parameter allows you to select the minimum delay time (in milliseconds) for Voice 2. It is this delayed signal (along with Voice1) that is detuned and modulated to produce the chorus effect. Using shorter delay times will result in a tighter sounding chorused signal, while longer delay times will produce a larger ambient effect.

DELAY Function

The DELAY function is available in all presets.

Delay is a reproduction of the input signal, occurring at a prescribed time (usually expressed in milliseconds) following the input signal. The UTOPIA G100 provides two discrete delays (Delay 1 and Delay 2), each of which has its own parameters to determine its particular characteristics.

The PARAMETER SELECT knob will allow you to access these DELAY parameters:

DELAY	The DELAY parameter determines whether the Delay is active or muted for the current preset.
MUTE TYPE	<p>The MUTE TYPE parameter allows for muting the delay at its input (PRE), its output (POST) or BOTH.</p> <p>Muting the input (PRE) of the delay will not allow any signal to enter the delay section until the delay is switched in. When using a moderate amount of regeneration, switching out the delay with the input muted will allow you to generate a non-delayed signal which will play over the decaying regenerated signal which continues on after the delay is switched out.</p> <p>Muting the output (POST) of the delay will result in the delayed signal being immediately turned off when the delay is switched out. This means that delays and regeneration will not continue when the delay is switched out. If the output were not muted, signals that were input before the delay was switched out would be allowed to regenerate, even after switching out the delay.</p> <p>It is also possible to mute both the input and the output (BOTH) so that no signal enters or exits the Delay section when it is not switched in.</p>
DELAY LVL	The DELAY LEVEL parameter determines the overall level of the delayed signal at the output relative to the direct signal and other effect signals. This parameter can also be accessed from the Delay function parameter list.
MIX	<p>The MIX parameter is used to define the ratio of Source 1 signal to Source 2 signal to be input to the Delay section. Source 1 is the Voice 1 output from the previous effect in the signal chain (chorus, flanger, pitch shifter, etc.), while Source 2 may be the Voice 2 output from the previous effect in the signal chain or the direct signal (selectable via the SOURCE 2 parameter).</p> <p>In configurations where there is no effect immediately preceding the delay, Source 1 and Source 2 will be the preamp output (direct) signal.</p>

SOURCE 2	The SOURCE 2 parameter is used to select whether the Source 2 input will be the VOICE 2 output from the previous effect in the signal chain or the direct signal (DIR).
DLY HF DAMP	The DELAY HIGH FREQUENCY DAMPING parameter controls the amount of high frequency content in the delayed and regenerated signals. Higher amounts of damping will result in less high frequency information in the delayed signal.
OUT LEVEL 1	The OUTPUT LEVEL 1 parameter determines the volume of Delay 1 relative to Delay 2.
PAN 1	The PAN 1 parameter allows you to pan the Delay 1 signal to the left or right channel.
DLY TIME 1	The DELAY TIME 1 parameter determines the length of time (in milliseconds) after the input signal that the Delay 1 signal will begin.
REGEN 1	The REGENERATION 1 parameter determines the number of times the Delay 1 signal will repeat itself. This is achieved by feeding the delayed output back into the input. Higher parameter settings will result in more repeats. The displayed value represents the attenuation (in dB) that the regeneration signal is subjected to at each repeat.
OUT LEVEL 2	The OUTPUT LEVEL 2 parameter determines the volume of Delay 2 relative to Delay 1.
PAN 2	The PAN 2 parameter allows you to pan the Delay 2 signal to the left or right channel.
DLY TIME 2	The DELAY TIME 2 parameter determines the length of time after the input signal that the Delay 2 signal will begin. This length of time is measured in milliseconds.
REGEN 2	The REGENERATION 2 parameter determines the number of times the Delay 2 signal will repeat itself. This is achieved by feeding the delayed output back into the input. Higher parameter settings will result in more repeats.

** The Delay features a regeneration limiter, since setting both REGEN parameters to high levels would result in louder and louder echoes until a severe overload occurs. The limiter senses when this condition would occur and automatically turns down both REGEN levels to avoid such an instability. This is especially important when REGEN levels are being adjusted in real-time. The regeneration levels can be reset by recalling the preset or by accessing the REGEN 1 and REGEN 2 parameters and turning the ADJUST control.*

REVERB Function

The REVERB function is available in all presets.

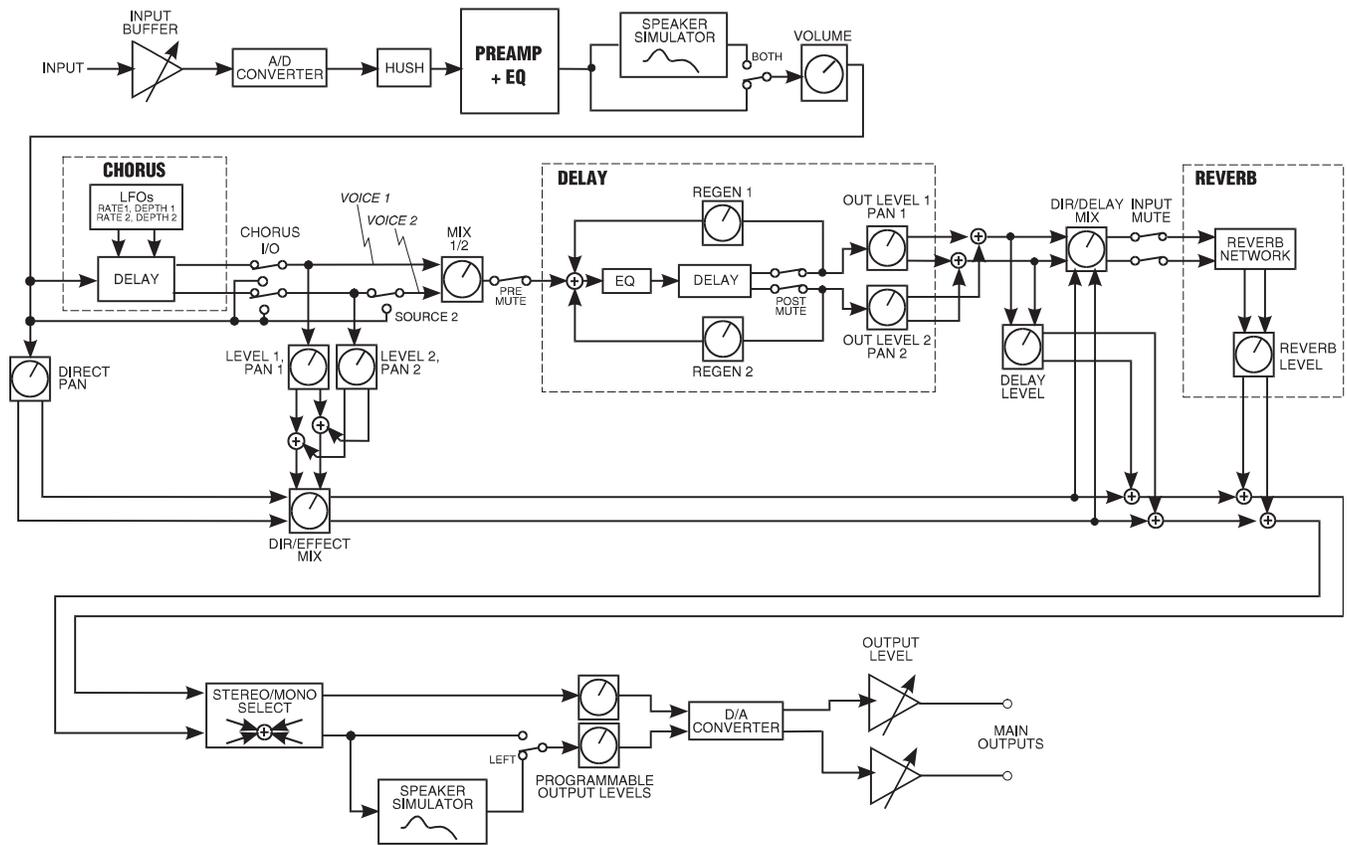
Reverb is a multitude of echoes spaced so close together that, to the human ears seem as a single continuous sound. These echoes gradually decrease in intensity until they are ultimately absorbed by the boundaries and obstacles within a room. As the sound waves from the sound source strike the boundaries of a room, a portion of the energy is reflected away from the obstacle while another portion is absorbed into it - thereby causing both the continuance of sound as well as the decaying or "dying out" of the sound.

The PARAMETER SELECT knob will allow you to access these REVERB parameters:

REV INPUT	The REVERB INPUT parameter determines whether the input to the Reverb section is ACTIVE (passing a signal) or MUTED (will not pass a signal).
MIX DIR/DLY	The MIX DIRECT/DELAY parameter is used to define the ratio of direct signal to delayed signal to be input to the reverb section.
REVERB LVL	The REVERB LEVEL parameter allows you to control the level of the reverb signal at the output in relation to the direct signal and other effect signals. This parameter is also accessible from the Mixer function.
REV DECAY	The REVERB DECAY parameter determines the length of time that the reverb signal will sound before it has completely died out.
REV HF DAMP	The REVERB HIGH FREQUENCY DAMPING parameter is used to control the decay rate of high frequency information in the reverb signal. Higher parameter settings will result in a faster decay of high frequency information.

6. UTOPIA G100 Configurations

PRE, CHR, DL, REV Configuration (Preamp, Chorus, Delay, Reverb)



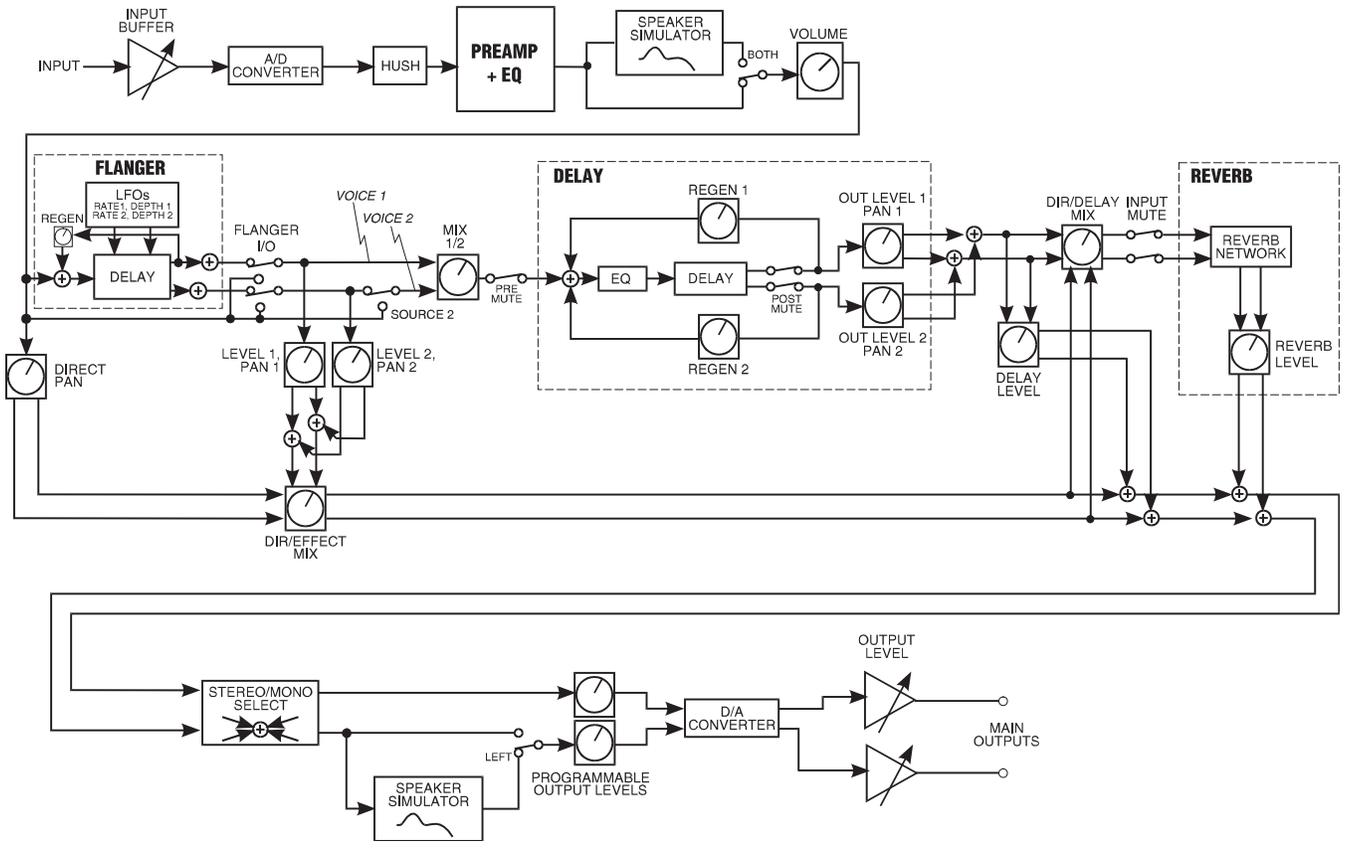
PRE, CHR, DL, REV Parameter List - - Preamp, Chorus, Delay, Reverb

FUNCTION <small>(via FUNCTION SELECT)</small>	PARAMETER LIST <small>(via PARAMETER SELECT)</small>	RANGE <small>(via PARAMETER ADJUST)</small>
GLOBAL	OUTPUT (Output Level) SPKR SIM (Speaker Simulator Lock) HUSH OFFSET MASTER VOLUME	Stereo, Mono Unlock, Lock Off, Lock L, Lock B -10(dB) to +30(dB) -40(dB) to +6(dB)
MIXER	VOLUME (Volume Level) LEFT OUT LVL (Left Channel Output Level) RIGHT OUT LVL (Right Channel Output Level) MIX (Direct/Effect Mix Level) DIR PAN (Direct Signal Panning) DELAY LVL (Delay Signal Level) REVERB LVL (Reverb Signal Level)	0 to 127 OFF to +4(dB) OFF to +4(dB) DIR <0 to 100> EFF L <0 to 100> R OFF to +4(dB) OFF TO +4(dB)
PREAMP	CHANNEL GAIN (Gain Level) VARIAC ADJUST (Variac Level Adjustment) BASS (Bass Level) MID (Midband Level) TREBLE (Treble Level) PRESENCE (Presence Level) BRIGHT SCOOP MASTER	Clean, Texas, British, Mega 0 to 10 -6(dB) to 0(dB) 0 to 10 0 to 10 0 to 10 0 to 10 Out, In (Clean Channel Only) Out, In (MEGA Channel Only) 0 to 10
HUSH	HUSH (Hush In/Out) EXP THRESH (Expander Threshold Level)	Out, In -90(dB) to -27(dB)
SPEAKER SIM	SPKR SIM (Speaker Simulator Status) SPKR TYPE (Speaker Type) MIC POSITION (Microphone Position) REACTANCE (Reactance Level)	Off, Left, Both 15, 12, 10, 8, Full -15(dB) to +15(dB) -15(dB) to +15(dB)
COMPRESSOR	COMPRESSOR (Compressor In/Out Status) COMP THRESH (Compression Threshold) COMP ATTACK (Compression Attack) COMP RELEASE (Compression Release)	Out, In -24(dB) to 0(dB) 1MS, 2MS, 4MS, 8MS, 16MS, 25MS, 50MS, 75MS .05S.to 2.0S
CHORUS	CHORUS (Chorus In/Out Status) LEVEL 1 (Voice 1 Level) PAN 1 (Voice 1 Panning) DEPTH 1 (Voice 1 Modulation Depth) RATE 1 (Voice 1 Modulation Rate) DELAY 1 (Voice 1 Delay Length) LEVEL 2 (Voice 2 Level) PAN 2 (Voice 2 Panning) DEPTH 2 (Voice 2 Modulation Depth) RATE 2 (Voice 2 Modulation Rate) DELAY 2 (Voice 2 Delay Length)	Out, In OFF to +4(dB) L <0 to 100> R 0 to 100 0 to 254 2ms to 40ms OFF to +4(dB) L <0 to 100> R 0 to 100 0 to 254 2ms to 40ms

PRE, CHR, DL, REV Parameter List - - continued....

FUNCTION <small>(via FUNCTION SELECT)</small>	PARAMETER LIST <small>(via PARAMETER SELECT)</small>	RANGE <small>(via PARAMETER ADJUST)</small>
DELAY	DELAY (Delay Status) MUTE TYPE (Mute Type Status) DELAY LVL (Delay Level) MIX (Source 1/Source 2 Mix Level) SOURCE 2 (Source 2 Select) DLY HF DAMP (Delay High Frequency Damping) OUT LEVEL 1 (Delay 1 Level) PAN 1 (Delay 1 Panning) DLY TIME1 (Delay 1 Length) REGEN 1 (Delay 1 Regeneration) OUT LEVEL 2 (Delay 2 Level) PAN 2 (Delay 2 Panning) DLY TIME2 (Delay 2 Length) REGEN 2 (Delay 2 Regeneration)	Muted, Active Pre, Post, Both OFF to +4(dB) S1 <0 to 100> S2 DIRECT, Voice 2 0 to 99 OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB) OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB)
REVERB	REV INPUT (Reverb Input Status) MIX (Direct/Delay Mix Level) REVERB LVL (Reverb Signal Level) REV DECAY (Reverb Decay Length) REV HF DAMP (Reverb High Frequency Damping)	Muted, Active Dir <0 to 100> Dly OFF to +4(dB) 0 to 99 0 to 99
CONFIG SELECT	PRE CHR DL REV PRE FLA DL REV PRE TRE DL REV PRE PSH DL REV WA PRE DL REV PHA PRE DL REV	
TITLE EDIT	XXXXXXXXXX	
PEDAL CONTROLLERS	NUMB 1 PARA1 ULIM C1 LLIM C1 NUMB 2 PARA 2 ULIM C2 LLIM C2	OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA1's selection can be used. Any range in PARA1's selection can be used. OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA2's selection can be used. Any range in PARA2's selection can be used.
PEDAL STATUS	RUN STAT (Pedal Running Status On or Off) PEDAL VOLUME	OFF,ON 0 to 127
FACTORY RESTORE	RESTR X to X (Restore a single preset) ALL RESTORE (Restore all factory presets)	1 to 1, 2 to 2, 3 to 3, etc. Enter Number 22 - Use caution as this will over-write all presets!

PRE, FLA, DL, REV Configuration Preamp, Flanger, Delay, Reverb



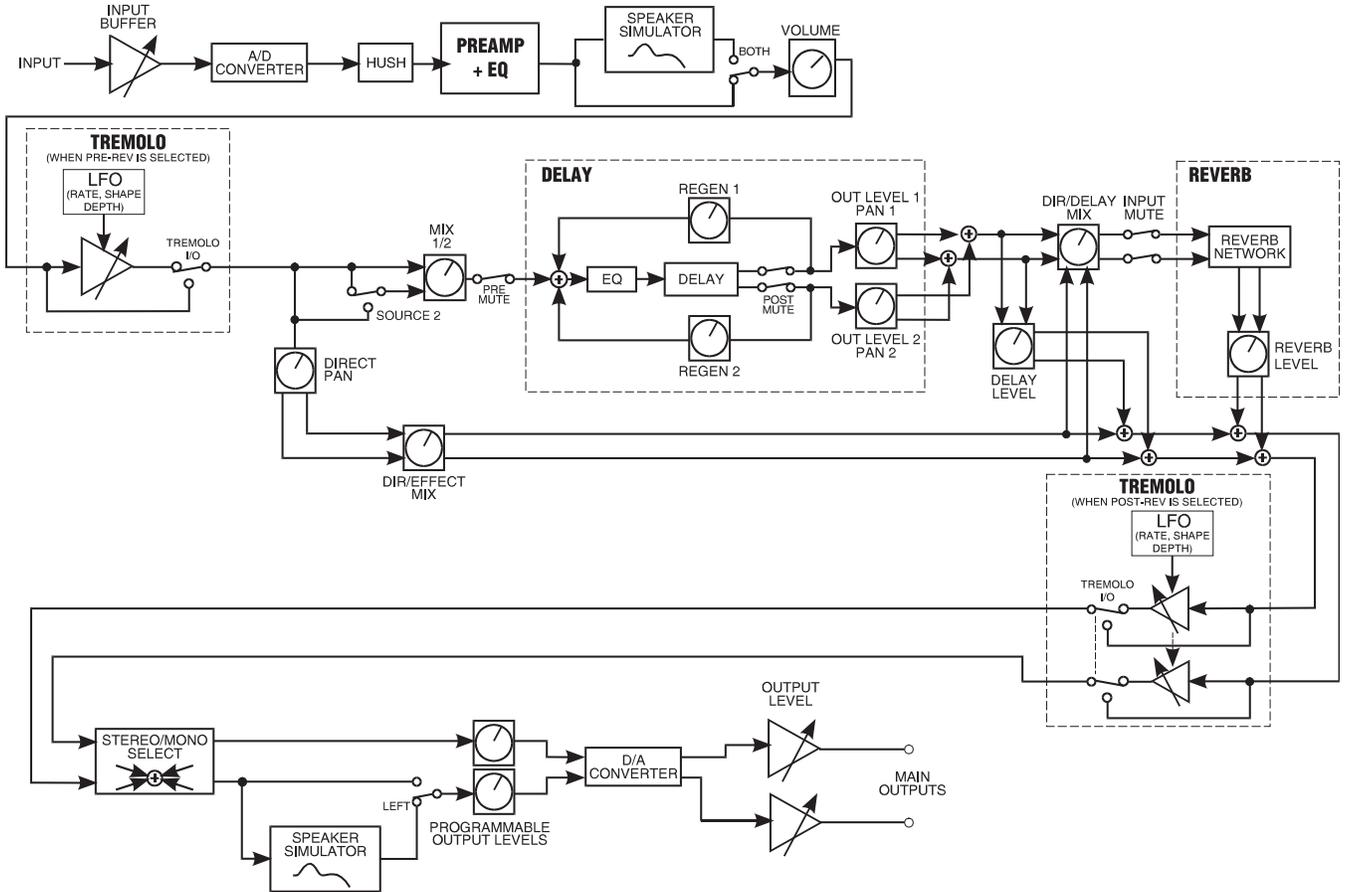
PRE, FLA, DL, REV Parameter List - - Preamp, Flanger, Delay, Reverb

FUNCTION <small>(via_FUNCTION_SELECT)</small>	PARAMETER LIST <small>(via_PARAMETER_SELECT)</small>	RANGE <small>(via_PARAMETER_ADJUST)</small>
GLOBAL	OUTPUT (Output Level) SPKR SIM (Speaker Simulator Lock) HUSH OFFSET MASTER VOLUME	Stereo, Mono Unlock, Lock Off, Lock L, Lock B -10(dB) to +30(dB) -40(dB) to +6(dB)
MIXER	VOLUME (Volume Level) LEFT OUT LVL (Left Channel Output Level) RIGHT OUT LVL (Right Channel Output Level) MIX (Direct/Effect Mix Level) DIR PAN (Direct Signal Panning) DELAY LVL (Delay Signal Level) REVERB LVL (Reverb Signal Level)	0 to 127 OFF to +4(dB) OFF to +4(dB) DIR <0 to 100> EFF L <0 to 100> R OFF to +4(dB) OFF TO +4(dB)
PREAMP	CHANNEL GAIN (Gain Level) VARIAC ADJUST (Variac Level Adjustment) BASS (Bass Level) MID (Midband Level) TREBLE (Treble Level) PRESENCE (Presence Level) BRIGHT SCOOP MASTER	Clean, Texas, British, Mega 0 to 10 -6(dB) to 0(dB) 0 to 10 0 to 10 0 to 10 0 to 10 Out, In (Clean Channel Only) Out, In (MEGA Channel Only) 0 to 10
HUSH	HUSH (Hush In/Out) EXP THRESH (Expander Threshold Level)	Out, In -90(dB) to -27(dB)
SPEAKER SIM	SPKR SIM (Speaker Simulator Status) SPKR TYPE (Speaker Type) MIC POSITION (Microphone Position) REACTANCE (Reactance Level)	Off, Left, Both 15, 12, 10, 8, Full -15(dB) to +15(dB) -15(dB) to +15(dB)
COMPRESSOR	COMPRESSOR (Compressor In/Out Status) COMP THRESH (Compression Threshold) COMP ATTACK (Compression Attack) COMP RELEASE (Compression Release)	Out, In -24(dB) to 0(dB) 1MS, 2MS, 4MS, 8MS, 16MS, 25MS, 50MS, 75MS .05S.to 2.0S
FLANGER	FLANGER (Flanger In/Out Status) LEVEL 1 (Voice 1 Level) PAN 1 (Voice 1 Panning) DEPTH 1 (Voice 1 Modulation Depth) RATE 1 (Voice 1 Modulation Rate) LEVEL 2 (Voice 2 Level) PAN 2 (Voice 2 Panning) DEPTH 2 (Voice 2 Modulation Depth) RATE 2 (Voice 2 Modulation Rate) REGEN (Flanger Regeneration Level)	Out, In OFF to +4(dB) L <0 to 100> R 0 to 100 0 to 254 OFF to +4(dB) L <0 to 100> R 0 to 100 0 to 254 OFF to +4(dB)

PRE, FLA, DL, REV Parameter List - - continued....

FUNCTION <small>(via FUNCTION_SELECT)</small>	PARAMETER LIST <small>(via PARAMETER_SELECT)</small>	RANGE <small>(via PARAMETER_ADJUST)</small>
DELAY	DELAY (Delay Status) MUTE TYPE (Mute Type Status) DELAY LVL (Delay Level) MIX (Source 1/Source 2 Mix Level) SOURCE 2 (Source 2 Select) DLY HF DAMP (Delay High Frequency Damping) OUT LEVEL 1 (Delay 1 Level) PAN 1 (Delay 1 Panning) DLY TIME1 (Delay 1 Length) REGEN 1 (Delay 1 Regeneration) OUT LEVEL 2 (Delay 2 Level) PAN 2 (Delay 2 Panning) DLY TIME2 (Delay 2 Length) REGEN 2 (Delay 2 Regeneration)	Muted, Active Pre, Post, Both OFF to +4(dB) S1 <0 to 100> S2 DIRECT, Voice 2 0 to 99 OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB) OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB)
REVERB	REV INPUT (Reverb Input Status) MIX (Direct/Delay Mix Level) REVERB LVL (Reverb Signal Level) REV DECAY (Reverb Decay Length) REV HF DAMP (Reverb High Frequency Damping)	Muted, Active Dir <0 to 100> Dly OFF to +4(dB) 0 to 99 0 to 99
CONFIG SELECT	PRE CHR DL REV PRE FLA DL REV PRE TRE DL REV PRE PSH DL REV WA PRE DL REV PHA PRE DL REV	
TITLE EDIT	XXXXXXXX	
PEDAL CONTROLLERS	NUMB 1 PARA1 ULIM C1 LLIM C1 NUMB 2 PARA 2 ULIM C2 LLIM C2	OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA1's selection can be used. Any range in PARA1's selection can be used. OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA2's selection can be used. Any range in PARA2's selection can be used.
PEDAL STATUS	RUN STAT (Pedal Running Status On or Off) PEDAL VOLUME	OFF,ON 0 to 127
FACTORY RESTORE	RESTR X to X (Restore a single preset) ALL RESTORE (Restore all factory presets)	1 to 1, 2 to 2, 3 to 3, etc. Enter Number 22 - Use caution as this will over-write all presets!

PRE, TRE, DL, REV Configuration Preamp, Tremolo, Delay, Reverb



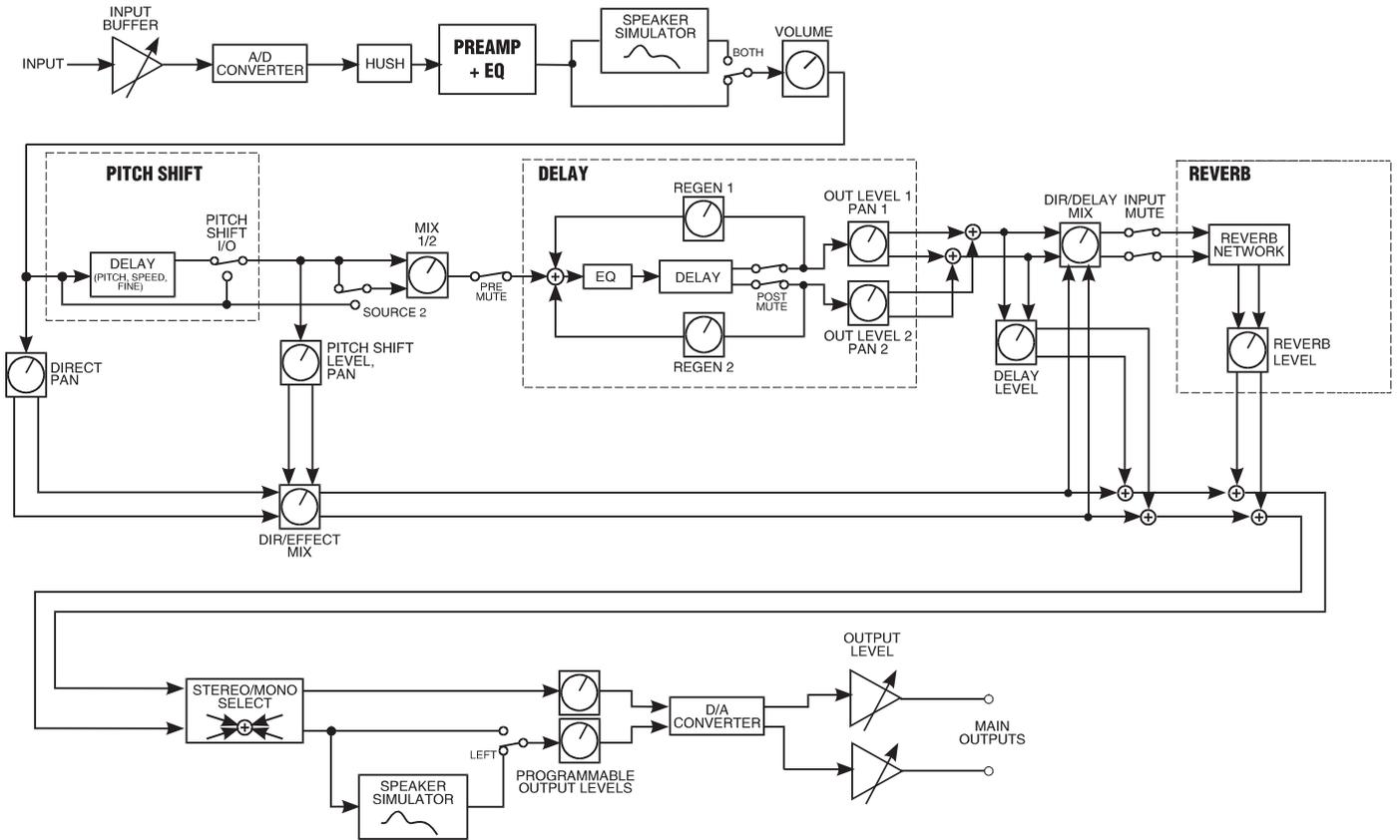
PRE, TRE, DL, REV Parameter List - - Preamp, Tremolo, Delay, Reverb

FUNCTION <small>(via FUNCTION SELECT)</small>	PARAMETER LIST <small>(via PARAMETER SELECT)</small>	RANGE <small>(via PARAMETER ADJUST)</small>
GLOBAL	OUTPUT (Output Level) SPKR SIM (Speaker Simulator Lock) HUSH OFFSET MASTER VOLUME	Stereo, Mono Unlock, Lock Off, Lock L, Lock B -10(dB) to +30(dB) -40(dB) to +6(dB)
MIXER	VOLUME (Volume Level) LEFT OUT LVL (Left Channel Output Level) RIGHT OUT LVL (Right Channel Output Level) MIX (Direct/Effect Mix Level) DIR PAN (Direct Signal Panning) DELAY LVL (Delay Signal Level) REVERB LVL (Reverb Signal Level)	0 to 127 OFF to +4(dB) OFF to +4(dB) DIR <0 to 100> EFF L <0 to 100> R OFF to +4(dB) OFF TO +4(dB)
PREAMP	CHANNEL GAIN (Gain Level) VARIAC ADJUST (Variac Level Adjustment) BASS (Bass Level) MID (Midband Level) TREBLE (Treble Level) PRESENCE (Presence Level) BRIGHT SCOOP MASTER	Clean, Texas, British, Mega 0 to 10 -6(dB) to 0(dB) 0 to 10 0 to 10 0 to 10 0 to 10 0 to 10 Out, In (Clean Channel Only) Out, In (MEGA Channel Only) 0 to 10
HUSH	HUSH (Hush In/Out) EXP THRESH (Expander Threshold Level)	Out, In -90(dB) to -27(dB)
SPEAKER SIM	SPKR SIM (Speaker Simulator Status) SPKR TYPE (Speaker Type) MIC POSITION (Microphone Position) REACTANCE (Reactance Level)	Off, Left, Both 15, 12, 10, 8, Full -15(dB) to +15(dB) -15(dB) to +15(dB)
COMPRESSOR	COMPRESSOR (Compressor In/Out Status) COMP THRESH (Compression Threshold) COMP ATTACK (Compression Attack) COMP RELEASE (Compression Release)	Out, In -24(dB) to 0(dB) 1MS, 2MS, 4MS, 8MS, 16MS, 25MS, 50MS, 75MS .05S.to 2.0S
TREMOLO	TREMOLO (Tremolo In/Out Status) LOCATION (Pre or Post Reverb Location) DEPTH (Modulation Depth) RATE (Modulation Rate) SHAPE (Wave Shape)	Out, In Pre-Rev, Post-Rev 0 to 100 0 to 254 Triangle, Square

PRE, TRE, DL, REV Parameter List - - continued....

FUNCTION <small>(via FUNCTION SELECT)</small>	PARAMETER LIST <small>(via PARAMETER SELECT)</small>	RANGE <small>(via PARAMETER ADJUST)</small>
DELAY	DELAY (Delay Status) MUTE TYPE (Mute Type Status) DELAY LVL (Delay Level) MIX (Source 1/Source 2 Mix Level) SOURCE 2 (Source 2 Select) DLY HF DAMP (Delay High Frequency Damping) OUT LEVEL 1 (Delay 1 Level) PAN 1 (Delay 1 Panning) DLY TIME1 (Delay 1 Length) REGEN 1 (Delay 1 Regeneration) OUT LEVEL 2 (Delay 2 Level) PAN 2 (Delay 2 Panning) DLY TIME2 (Delay 2 Length) REGEN 2 (Delay 2 Regeneration)	Muted, Active Pre, Post, Both OFF to +4(dB) S1 <0 to 100> S2 DIRECT, Voice 2 0 to 99 OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB) OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB)
REVERB	REV INPUT (Reverb Input Status) MIX (Direct/Delay Mix Level) REVERB LVL (Reverb Signal Level) REV DECAY (Reverb Decay Length) REV HF DAMP (Reverb High Frequency Damping)	Muted, Active Dir <0 to 100> Dly OFF to +4(dB) 0 to 99 0 to 99
CONFIG SELECT	PRE CHR DL REV PRE FLA DL REV PRE TRE DL REV PRE PSH DL REV WA PRE DL REV PHA PRE DL REV	
TITLE EDIT	XXXXXXXX	
PEDAL CONTROLLERS	NUMB 1 PARA1 ULIM C1 LLIM C1 NUMB 2 PARA 2 ULIM C2 LLIM C2	OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA1's selection can be used. Any range in PARA1's selection can be used. OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA2's selection can be used. Any range in PARA2's selection can be used.
PEDAL STATUS	RUN STAT (Pedal Running Status On or Off) PEDAL VOLUME	OFF,ON 0 to 127
FACTORY RESTORE	RESTR X to X (Restore a single preset) ALL RESTORE (Restore all factory presets)	1 to 1, 2 to 2, 3 to 3, etc. Enter Number 22 - Use caution as this will over-write all presets!

PRE, PSH, DL, REV Configuration Preamp, Pitch Shift, Delay, Reverb



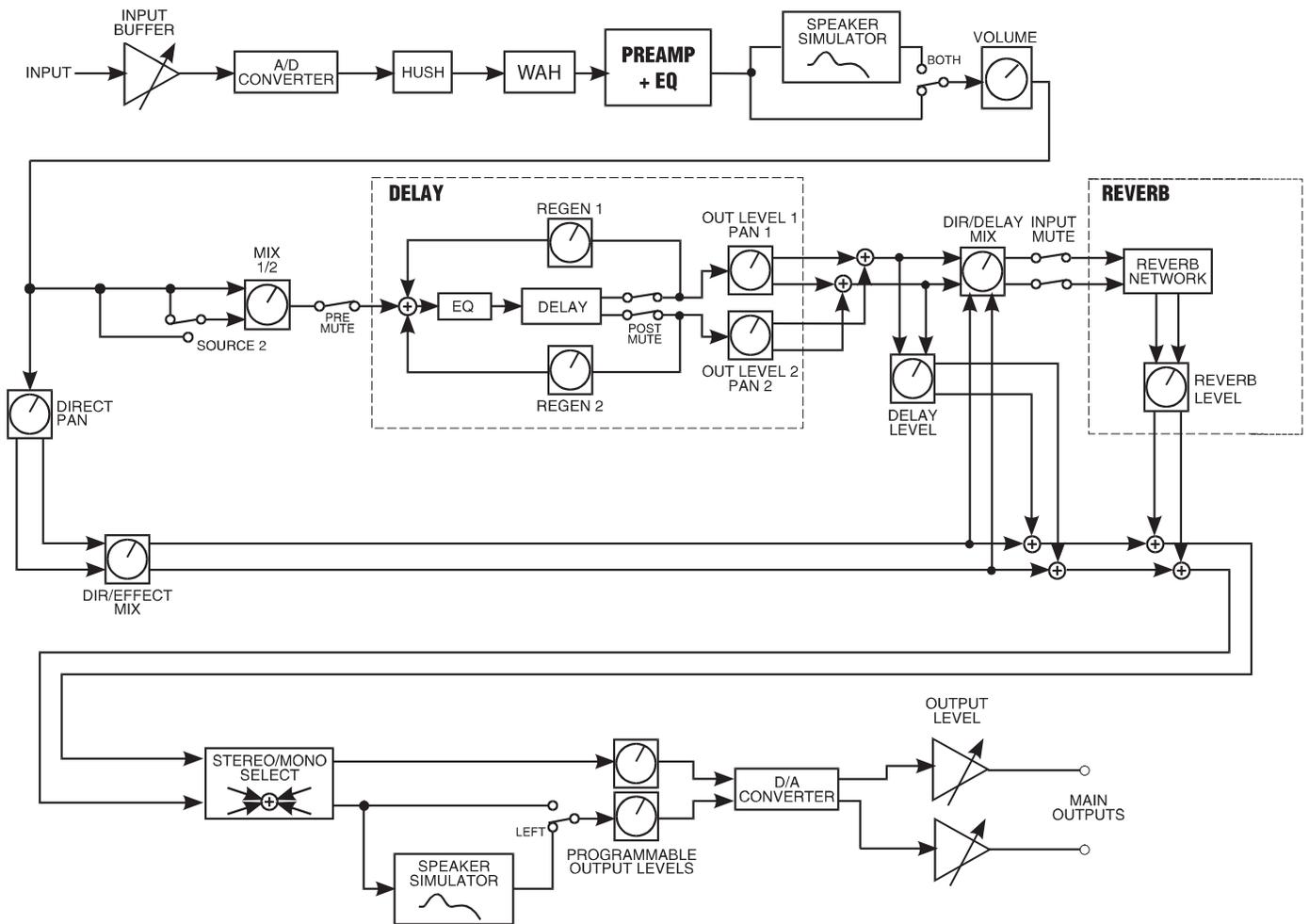
PRE, PSH, DL, REV Parameter List - - Preamp, Pitch Shift, Delay, Reverb

FUNCTION <small>(via FUNCTION SELECT)</small>	PARAMETER LIST <small>(via PARAMETER SELECT)</small>	RANGE <small>(via PARAMETER ADJUST)</small>
GLOBAL	OUTPUT (Output Level) SPKR SIM (Speaker Simulator Lock) HUSH OFFSET MASTER VOLUME	Stereo, Mono Unlock, Lock Off, Lock L, Lock B -10(dB) to +30(dB) -40(dB) to +6(dB)
MIXER	VOLUME (Volume Level) LEFT OUT LVL (Left Channel Output Level) RIGHT OUT LVL (Right Channel Output Level) MIX (Direct/Effect Mix Level) DIR PAN (Direct Signal Panning) DELAY LVL (Delay Signal Level) REVERB LVL (Reverb Signal Level)	0 to 127 OFF to +4(dB) OFF to +4(dB) DIR <0 to 100> EFF L <0 to 100> R OFF to +4(dB) OFF TO +4(dB)
PREAMP	CHANNEL GAIN (Gain Level) VARIAC ADJUST (Variac Level Adjustment) BASS (Bass Level) MID (Midband Level) TREBLE (Treble Level) PRESENCE (Presence Level) BRIGHT SCOOP MASTER	Clean, Texas, British, Mega 0 to 10 -6(dB) to 0(dB) 0 to 10 0 to 10 0 to 10 0 to 10 0 to 10 Out, In (Clean Channel Only) Out, In (MEGA Channel Only) 0 to 10
HUSH	HUSH (Hush In/Out) EXP THRESH (Expander Threshold Level)	Out, In -90(dB) to -27(dB)
SPEAKER SIM	SPKR SIM (Speaker Simulator Status) SPKR TYPE (Speaker Type) MIC POSITION (Microphone Position) REACTANCE (Reactance Level)	Off, Left, Both 15, 12, 10, 8, Full -15(dB) to +15(dB) -15(dB) to +15(dB)
COMPRESSOR	COMPRESSOR (Compressor In/Out Status) COMP THRESH (Compression Threshold) COMP ATTACK (Compression Attack) COMP RELEASE (Compression Release)	Out, In -24(dB) to 0(dB) 1MS, 2MS, 4MS, 8MS, 16MS, 25MS, 50MS, 75MS .05S.to 2.0S
PITCH SHIFT	PITCH SHIFT (Pitch Shift In/Out Status) LEVEL (Pitch Shift Signal Level) PAN (Pitch Shift Signal Panning) PITCH (Pitch Shift in 20-Cent Steps) FINE (Pitch Shift in 1-Cent Steps) SPEED (Pitch Shift Signal Speed)	Out, In OFF to +4(dB) L <0 to 100> R -2400 to +1200 -20 to +20 Slow, Medium, Fast

PRE, PSH, DL, REV Parameter List - -continued.....

FUNCTION <small>(via FUNCTION SELECT)</small>	PARAMETER LIST <small>(via PARAMETER SELECT)</small>	RANGE <small>(via PARAMETER ADJUST)</small>
DELAY	DELAY (Delay Status) MUTE TYPE (Mute Type Status) DELAY LVL (Delay Level) MIX (Source 1/Source 2 Mix Level) SOURCE 2 (Source 2 Select) DLY HF DAMP (Delay High Frequency Damping) OUT LEVEL 1 (Delay 1 Level) PAN 1 (Delay 1 Panning) DLY TIME1 (Delay 1 Length) REGEN 1 (Delay 1 Regeneration) OUT LEVEL 2 (Delay 2 Level) PAN 2 (Delay 2 Panning) DLY TIME2 (Delay 2 Length) REGEN 2 (Delay 2 Regeneration)	Muted, Active Pre, Post, Both OFF to +4(dB) S1 <0 to 100> S2 DIRECT, Voice 2 0 to 99 OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB) OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB)
REVERB	REV INPUT (Reverb Input Status) MIX (Direct/Delay Mix Level) REVERB LVL (Reverb Signal Level) REV DECAY (Reverb Decay Length) REV HF DAMP (Reverb High Frequency Damping)	Muted, Active Dir <0 to 100> Dly OFF to +4(dB) 0 to 99 0 to 99
CONFIG SELECT	PRE CHR DL REV PRE FLA DL REV PRE TRE DL REV PRE PSH DL REV WA PRE DL REV PHA PRE DL REV	
TITLE EDIT	XXXXXXXX	
PEDAL CONTROLLERS	NUMB 1 PARA1 ULIM C1 LLIM C1 NUMB 2 PARA 2 ULIM C2 LLIM C2	OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA1's selection can be used. Any range in PARA1's selection can be used. OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA2's selection can be used. Any range in PARA2's selection can be used.
PEDAL STATUS	RUN STAT (Pedal Running Status On or Off) PEDAL VOLUME	OFF,ON 0 to 127
FACTORY RESTORE	RESTR X to X (Restore a single preset) ALL RESTORE (Restore all factory presets)	1 to 1, 2 to 2, 3 to 3, etc. Enter Number 22 - Use caution as this will over-write all presets!

WA, PRE, DL, REV Configuration Wah Wah, Preamp, Delay, Reverb



WA, PRE, DL, REV Parameter List - - Wah-Wah, Preamp, Delay, Reverb

FUNCTION <small>(via FUNCTION SELECT)</small>	PARAMETER LIST <small>(via PARAMETER SELECT)</small>	RANGE <small>(via PARAMETER ADJUST)</small>
GLOBAL	OUTPUT (Output Level) SPKR SIM (Speaker Simulator Lock) HUSH OFFSET MASTER VOLUME	Stereo, Mono Unlock, Lock Off, Lock L, Lock B -10(dB) to +30(dB) -40(dB) to +6(dB)
MIXER	VOLUME (Volume Level) LEFT OUT LVL (Left Channel Output Level) RIGHT OUT LVL (Right Channel Output Level) MIX (Direct/Effect Mix Level) DIR PAN (Direct Signal Panning) DELAY LVL (Delay Signal Level) REVERB LVL (Reverb Signal Level)	0 to 127 OFF to +4(dB) OFF to +4(dB) DIR <0 to 100> EFF L <0 to 100> R OFF to +4(dB) OFF TO +4(dB)
PREAMP	CHANNEL GAIN (Gain Level) VARIAC ADJUST (Variac Level Adjustment) BASS (Bass Level) MID (Midband Level) TREBLE (Treble Level) PRESENCE (Presence Level) BRIGHT SCOOP MASTER	Clean, Texas, British, Mega 0 to 10 -6(dB) to 0(dB) 0 to 10 0 to 10 0 to 10 0 to 10 Out, In (Clean Channel Only) Out, In (MEGA Channel Only) 0 to 10
HUSH	HUSH (Hush In/Out) EXP THRESH (Expander Threshold Level)	Out, In -90(dB) to -27(dB)
SPEAKER SIM	SPKR SIM (Speaker Simulator Status) SPKR TYPE (Speaker Type) MIC POSITION (Microphone Position) REACTANCE (Reactance Level)	Off, Left, Both 15, 12, 10, 8, Full -15(dB) to +15(dB) -15(dB) to +15(dB)
COMPRESSOR	COMPRESSOR (Compressor In/Out Status) COMP THRESH (Compression Threshold) COMP ATTACK (Compression Attack) COMP RELEASE (Compression Release)	Out, In -24(dB) to 0(dB) 1MS, 2MS, 4MS, 8MS, 16MS, 25MS, 50MS, 75MS .05S.to 2.0S
WAH-WAH	WAH-WAH (Wah-Wah In/Out Status) DIR/EFF MIX WAH FREQ (Wah Frequency)	Out, In DIR <0 to 100> EFF 310Hz to 2.6kHz

WA, PRE, DL, REV Parameter List - - continued....

FUNCTION

(via FUNCTION SELECT)

PARAMETER LIST

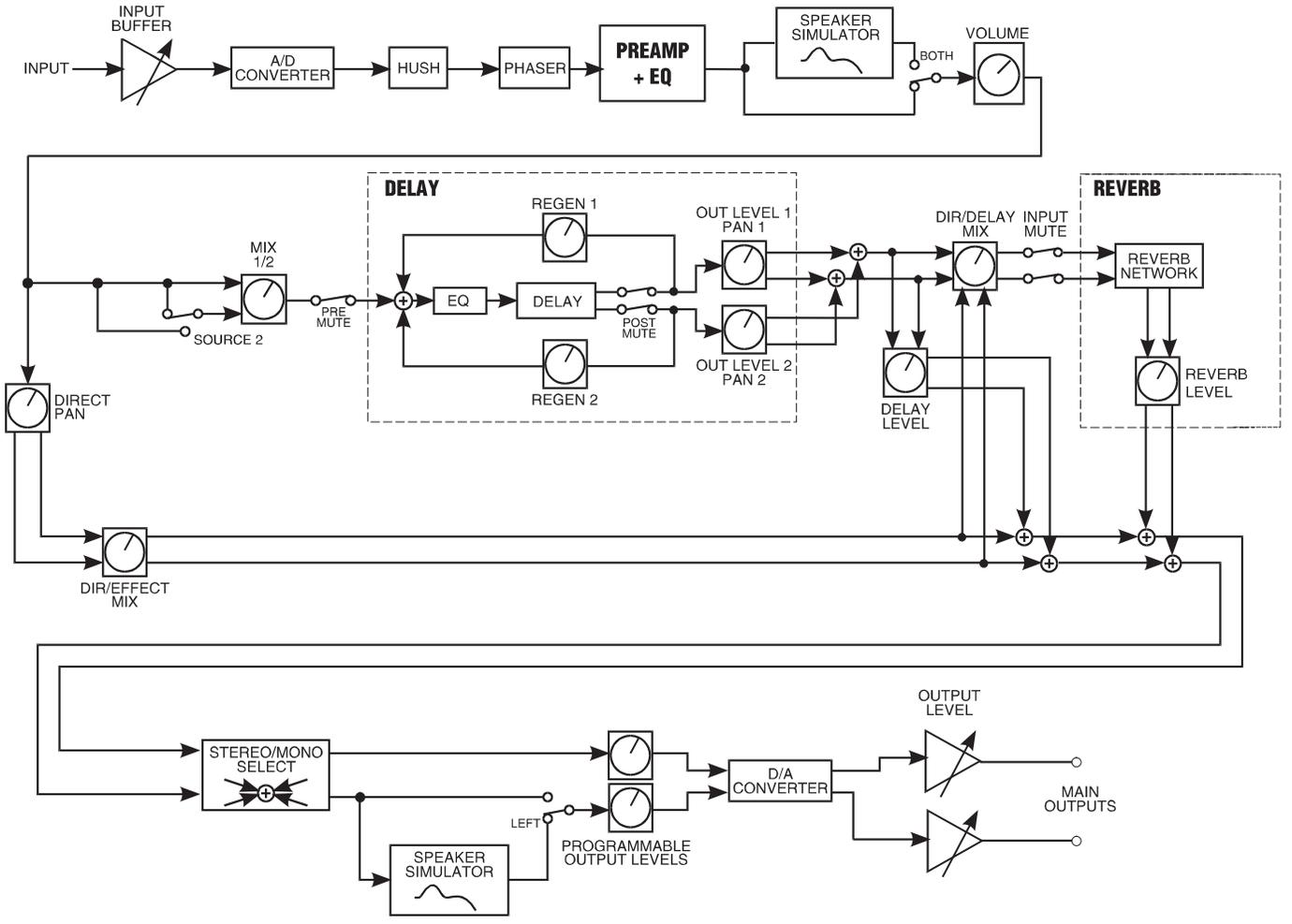
(via PARAMETER SELECT)

RANGE

(via PARAMETER ADJUST)

DELAY	DELAY (Delay Status)	Muted, Active
	MUTE TYPE (Mute Type Status)	Pre, Post, Both
	DELAY LVL (Delay Level)	OFF to +4(dB)
	MIX (Source 1/Source 2 Mix Level)	S1 <0 to 100> S2
	SOURCE 2 (Source 2 Select)	DIRECT, Voice 2
	DLY HF DAMP (Delay High Frequency Damping)	0 to 99
	OUT LEVEL 1 (Delay 1 Level)	OFF to +4(dB)
	PAN 1 (Delay 1 Panning)	L <0 to 100> R
	DLY TIME1 (Delay 1 Length)	0 to 2000ms
	REGEN 1 (Delay 1 Regeneration)	OFF to +4(dB)
	OUT LEVEL 2 (Delay 2 Level)	OFF to +4(dB)
	PAN 2 (Delay 2 Panning)	L <0 to 100> R
	DLY TIME2 (Delay 2 Length)	0 to 2000ms
REGEN 2 (Delay 2 Regeneration)	OFF to +4(dB)	
REVERB	REV INPUT (Reverb Input Status)	Muted, Active
	MIX (Direct/Delay Mix Level)	Dir <0 to 100> Dly
	REVERB LVL (Reverb Signal Level)	OFF to +4(dB)
	REV DECAY (Reverb Decay Length)	0 to 99
	REV HF DAMP (Reverb High Frequency Damping)	0 to 99
CONFIG SELECT	PRE CHR DL REV	
	PRE FLA DL REV	
	PRE TRE DL REV	
	PRE PSH DL REV	
	WA PRE DL REV	
	PHA PRE DL REV	
TITLE EDIT	XXXXXXXX	
PEDAL CONTROLLERS	NUMB 1	OFF, PED, ADJ
	PARA1	Any parameters available in this configuration can be selected.
	ULIM C1	Any range in PARA1's selection can be used.
	LLIM C1	Any range in PARA1's selection can be used.
	NUMB 2	OFF, PED, ADJ
	PARA 2	Any parameters available in this configuration can be selected.
	ULIM C2	Any range in PARA2's selection can be used.
	LLIM C2	Any range in PARA2's selection can be used.
PEDAL STATUS	RUN STAT (Pedal Running Status On or Off)	OFF,ON
	PEDAL VOLUME	0 to 127
FACTORY RESTORE	RESTR X to X (Restore a single preset)	1 to 1, 2 to 2, 3 to 3, etc.
	ALL RESTORE (Restore all factory presets)	Enter Number 22 - Use caution as this will over-write all presets!

PHA, PRE, DL, REV Configuration Phaser, Preamp, Delay, Reverb



PHA, PRE, DL, REV Parameter List - - Phaser, Preamp, Delay, Reverb

FUNCTION <small>(via FUNCTION SELECT)</small>	PARAMETER LIST <small>(via PARAMETER SELECT)</small>	RANGE <small>(via PARAMETER ADJUST)</small>
GLOBAL	OUTPUT (Output Level) SPKR SIM (Speaker Simulator Lock) HUSH OFFSET MASTER VOLUME	Stereo, Mono Unlock, Lock Off, Lock L, Lock B -10(dB) to +30(dB) -40(dB) to +6(dB)
MIXER	VOLUME (Volume Level) LEFT OUT LVL (Left Channel Output Level) RIGHT OUT LVL (Right Channel Output Level) MIX (Direct/Effect Mix Level) DIR PAN (Direct Signal Panning) DELAY LVL (Delay Signal Level) REVERB LVL (Reverb Signal Level)	0 to 127 OFF to +4(dB) OFF to +4(dB) DIR <0 to 100> EFF L <0 to 100> R OFF to +4(dB) OFF TO +4(dB)
PREAMP	CHANNEL GAIN (Gain Level) VARIAC ADJUST (Variac Level Adjustment) BASS (Bass Level) MID (Midband Level) TREBLE (Treble Level) PRESENCE (Presence Level) BRIGHT SCOOP MASTER	Clean, Texas, British, Mega 0 to 10 -6(dB) to 0(dB) 0 to 10 0 to 10 0 to 10 0 to 10 Out, In (Clean Channel Only) Out, In (MEGA Channel Only) 0 to 10
HUSH	HUSH (Hush In/Out) EXP THRESH (Expander Threshold Level)	Out, In -90(dB) to -27(dB)
SPEAKER SIM	SPKR SIM (Speaker Simulator Status) SPKR TYPE (Speaker Type) MIC POSITION (Microphone Position) REACTANCE (Reactance Level)	Off, Left, Both 15, 12, 10, 8, Full -15(dB) to +15(dB) -15(dB) to +15(dB)
COMPRESSOR	COMPRESSOR (Compressor In/Out Status) COMP THRESH (Compression Threshold) COMP ATTACK (Compression Attack) COMP RELEASE (Compression Release)	Out, In -24(dB) to 0(dB) 1MS, 2MS, 4MS, 8MS, 16MS, 25MS, 50MS, 75MS .05S.to 2.0S
PHASER	PHASER (Phaser In/Out Status) DIR/EFF MIX DEPTH (Amount of Modulation) RATE (Rate of Modulation) RESONANCE (Amount of Feedback) STAGES (Number of Stages)	Out, In DIR <0 to 100> EFF 0 to 100 0 to 254 0 to 100 4, 6

PHA, PRE, DL, REV Parameter List - - continued....

FUNCTION <small>(via FUNCTION SELECT)</small>	PARAMETER LIST <small>(via PARAMETER SELECT)</small>	RANGE <small>(via PARAMETER ADJUST)</small>
DELAY	DELAY (Delay Status) MUTE TYPE (Mute Type Status) DELAY LVL (Delay Level) MIX (Source 1/Source 2 Mix Level) SOURCE 2 (Source 2 Select) DLY HF DAMP (Delay High Frequency Damping) OUT LEVEL 1 (Delay 1 Level) PAN 1 (Delay 1 Panning) DLY TIME1 (Delay 1 Length) REGEN 1 (Delay 1 Regeneration) OUT LEVEL 2 (Delay 2 Level) PAN 2 (Delay 2 Panning) DLY TIME2 (Delay 2 Length) REGEN 2 (Delay 2 Regeneration)	Muted, Active Pre, Post, Both OFF to +4(dB) S1 <0 to 100> S2 DIRECT, Voice 2 0 to 99 OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB) OFF to +4(dB) L <0 to 100> R 0 to 2000ms OFF to +4(dB)
REVERB	REV INPUT (Reverb Input Status) MIX (Direct/Delay Mix Level) REVERB LVL (Reverb Signal Level) REV DECAY (Reverb Decay Length) REV HF DAMP (Reverb High Frequency Damping)	Muted, Active Dir <0 to 100> Dly OFF to +4(dB) 0 to 99 0 to 99
CONFIG SELECT	PRE CHR DL REV PRE FLA DL REV PRE TRE DL REV PRE PSH DL REV WA PRE DL REV PHA PRE DL REV	
TITLE EDIT	XXXXXXXXXX	
PEDAL CONTROLLERS	NUMB 1 PARA1 ULIM C1 LLIM C1 NUMB 2 PARA 2 ULIM C2 LLIM C2	OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA1's selection can be used. Any range in PARA1's selection can be used. OFF, PED, ADJ Any parameters available in this configuration can be selected. Any range in PARA2's selection can be used. Any range in PARA2's selection can be used.
PEDAL STATUS	RUN STAT (Pedal Running Status On or Off) PEDAL VOLUME	OFF,ON 0 to 127
FACTORY RESTORE	RESTR X to X (Restore a single preset) ALL RESTORE (Restore all factory presets)	1 to 1, 2 to 2, 3 to 3, etc. Enter Number 22 - Use caution as this will over-write all presets!

7. Operating the UTOPIA G100

Selecting a preset:

- Step 1** There are two ways to select a preset on the UTOPIA G100. You can either turn the PRESET knob to the desired preset you wish to recall. The display will show the selected preset number. Using this knob to select a preset provides automatic recall. This means that when you change from preset to preset, the preset you are changing to is automatically selected



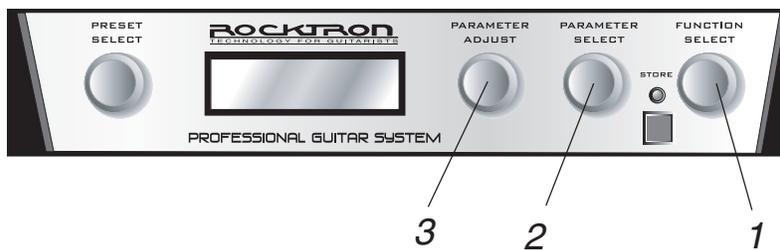
1

29 PRESET TITLE

The second way to select a preset with the UTOPIA G100 is to use the footswitches. Use the DOWN and UP buttons to scroll through the presets (see points 1 and 3 in the drawing below). However, in this function you will notice that the preset you have scrolled to is flashing. To select the preset that is flashing you must depress the RECALL button (point 2 in the drawing below). This is a useful feature in a live situation allowing you to be ready to select the next sound you would like to use in a song.



Changing preset parameters:



Step 1 Turn the FUNCTION SELECT knob to select the function heading which contains the parameter(s) you wish to change.

**** REVERB ****

Step 2 Turn the PARAMETER SELECT knob to the specific parameter you wish to change.

REV DECAY

59

Step 3 Turn the PARAMETER ADJUST knob to alter the parameter value.

REV DECAY

32

NOTE: If you have changed a parameter the "STORE" LED will light. The change(s) that you made will not be stored until you have pressed the "STORE" button. Please follow instructions on the next page for details on how to store changed parameters.

Storing changed preset parameters:



Step 1 While viewing a function or parameter title, press the STORE button to start the store procedure. The display will now alternate between the destination preset number and title and "STORE AT PRESET"



Step 2 Turn the PRESET knob to select the desired preset number to store the new parameter values into. (If you wish to store the new parameter values into the current preset number, this step is not necessary.) The display will now alternate between the new preset number and "STORE AT PRESET".



Step 3 Press the STORE button a second time to store the new values into the selected preset number. The display will briefly flash "STORED" before displaying the new preset number and title. (Turning the PARAMETER ADJUST knob before completing this step will cancel the store procedure.)



NOTE: If a preset with altered parameters is exited before completing Step 3, all edited parameter values will be lost. When saving altered parameters, make sure the display flashed "STORED" before exiting the store procedure.

Selecting a configuration:



- Step 1** To select a new configuration, turn the FUNCTION SELECT knob clockwise until the UTOPIA G100 displays "CONFIG SELECT".

CONFIG SELECT

- Step 2** Turn the PARAMETER SELECT knob clockwise to display the current configuration.

PRE,CHR,DL,REV

- Step 3** Use the PARAMETER ADJUST control to select the desired configuration.

WA,PRE,DL,REV

Note: The new configuration will not take effect until it is stored.

- Step 4** Press the STORE button to initiate the store procedure. The UTOPIA G100 display will alternate between the current preset number/title and "STORE AT PRESET".

29 PRESET TITLE

STORE AT PRESET

- Step 5** Turn the PRESET knob to select the preset you wish to store the new configuration into. (If you want to store the selected configuration into the current preset, skip this step.)

62 PRESET TITLE

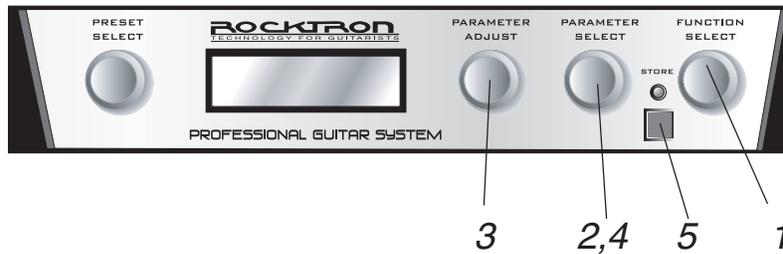
STORE AT PRESET

- Step 6** Press the STORE button a second time to store the selected configuration into the selected preset. The UTOPIA G100 will display "STORED" briefly.

STORED

When a new configuration is stored into a preset, each of the parameters contained in the new configuration that were contained in the previous configuration will retain the same values. All new configuration parameters that were not contained in the old configuration will be set to their default value (or their lowest value).

Editing a preset title:



Step 1 To begin the Title Edit function, turn the FUNCTION SELECT knob clockwise until the UTOPIA G100 displays "TITLE EDIT".

** TITLE EDIT **

Step 2 Turn the PARAMETER SELECT knob clockwise to initiate the Title Edit mode. Turning this knob will also select the character location to be edited. The letter to be adjusted will have a flashing box over the character selected.

57 PRESET TITLE

(Flashing box)

Step 3 Use the PARAMETER ADJUST knob to select the desired character for the current position (flashing box).

57 MRESET TITLE

Step 4 To edit the character in the next position, turn the PARAMETER SELECT knob one step clockwise. The flashing box will move to the next character.

57 MRRESET TITLE

Step 5 After all the characters have been edited as needed, press the STORE button to save the new title memory. The UTOPIA G100 will flash "STORED" briefly.

STORED

NOTE: The STORE button must be pressed to save the new title. Exiting the Title Edit function before pressing the STORE button will erase any editing that was done in Title Edit. Also, after flashing "STORED", the UTOPIA G100 will exit the title edit mode and return to the main preset number.

Pedal Controllers

The "Pedal Controllers" function allows for specific UTOPIA G100 adjustable parameters to be mapped (or assigned) to the built-in expression pedal for real-time control over the selected parameter. The Pedal Controllers option lets you assign one controller for "quick adjust" or assign one or two parameters to the built-in expression pedal. The Pedal Controllers also lets you store an upper and lower parameter value limit which the controller cannot exceed. For example, when using the expression pedal to send continuous control changes to control the "PITCH" parameter, an upper limit of +300 can be set and a lower limit of -200 can be set — even though the actual parameter range available is from +1200 to -2400. When the expression pedal is at its heel position in this example, the "PITCH" parameter will be at -200, while at its toe position it will be at +300. Up to two controllers can be assigned for each individual preset.



- Step 1** To access the Pedal Controller function, turn the FUNCTION SELECT knob clockwise to "PEDAL CONTROLLER".

PEDAL CONTROLLER

- Step 2** Turn the PARAMETER SELECT knob for the first parameter of the Controller Assign function. This parameter allows you to select a controller number for the NUMB 1 parameter to respond to.

NUMB 1 XXX

- Step 3** Use the PARAMETER ADJUST knob to select the controller to be assigned to the NUMB 1 parameter (either ADJ, PED or OFF).

NUMB 1 ADJ

NOTE: This parameter (NUMB 1 only) also gives you the option of selecting "ADJ". When "ADJ" is selected, the parameter assigned to the first controller (NUMB 1) can be instantly accessed by turning the PARAMETER ADJUST knob when the preset title is displayed. This allows you to access a parameter that you adjust frequently without paging through function headings and parameters. If you select "PED" the parameter assigned to the first controller (NUMB 1) will be adjusted by the built-in expression pedal. If you select "OFF" the first controller will not be assigned to either the "ADJ or the PED".

- Step 4** Turn the PARAMETER SELECT knob to select "PARA 1". This parameter allows you to select a parameter for the NUMB 1 parameter to respond to.

PARA1 XXXX

- Step 5** Use the PARAMETER ADJUST knob to scroll through the available parameters to be assigned to the PARA 1 parameter.

PARA1 PEDAL VOLUME

NOTE: Parameters available to be assigned may vary depending on what configuration "CONFIG SELECT" you have chosen for that particular preset.

NOTE: Because character space on the display is limited, you may not see the entire name of a parameter. For example, to choose FLANGER LEVEL 1 or FLANGER PAN 1 (or any of the Flanger's parameters), select "LEVEL 1" or "PAN 1" parameter that immediately follows the "FLANGER" parameter when turning the PARAMETER ADJUST knob clockwise. This is true for some other parameters as well.

Step 6 Turn the PARAMETER SELECT knob one step clockwise to display the Upper Limit parameter (for PARA 1).

ULIM C1 XXX

NOTE: The UTOPIA G100 allows you to select an upper and lower value limit which the parameter cannot exceed. For example, if a parameter has a value range from 0 to 127, yet you would like the range of the parameter to vary from only 50 to 127, you may set a lower limit of 50 and an upper limit of 127 via the Upper (ULIM) and Lower Limit (LLIM) parameters. When a parameter is stored in the Pedal Controller function (Step 7), the maximum parameter value is automatically stored as the upper limit (expression pedal toe down), while the minimum value is stored as the lower limit (expression pedal heel down).

Step 7 Use the PARAMETER ADJUST knob to choose the highest value that the parameter is not allowed to exceed when the toe of the expression pedal is down.

ULIM C1 127

Step 8 Turn the PARAMETER SELECT knob one step clockwise to access the Lower Limit parameter (for PARA 1).

LLIM C1 0

Step 9 Use the PARAMETER ADJUST knob to select the lowest value which the parameter is not to fall below through when the heel of the expression pedal is down.

LLIM C1 50

Selecting a lower limit value that is greater than the upper limit value will invert the response of the controller - i.e. the toe position of the expression controller will provide the minimum value, while the heel position will provide the maximum value.

Step 10 To make changes to the second Pedal Controller turn the PARAMETER SELECT knob clockwise one click.

NUMB 2 XXX

Step 11 Repeat steps 3-10 to make changes to NUMB 2, PARA 2, ULIM C2, and LLIM C2

Pedal Controllers.....continued.....

Step 12

You now must store your changes. If you have made any changes to any parameter, the LED above the "STORE" button will light. Press the STORE button to save the changes you have made. "STORE AT PRESET" will flash intermittently with the current preset. If you would like to save this change to the current preset, press the STORE button again. To save this adjusted preset (and the parameters you have just changed) to a different preset location, use the PRESET SELECT knob to choose the preset and then press the STORE button again. Note that doing this will "over-write" the preset you are saving to.

STORE AT PRESET

CURRENT PRESET

NOTE: To exit Pedal Controllers at any time or cancel any changes you have made, turn either the PRESET or FUNCTION SELECT knob. The word CANCEL will appear on the display.

CANCEL

PEDAL STATUS

The PEDAL STATUS is for use with the built-in expression pedal. By setting the RUN STAT parameter to ON, the UTOPIA G100 will track the position of the expression pedal (assuming the expression pedal is presently or had been previously assigned to "PEDAL VOLU") and vary the preset volume accordingly from preset to preset. NOTE: When the RUN STAT is ON, the expression pedal will assume the last PEDAL VOLUME status received. Please see examples below:

Example 1..... lets assume that you had RUN STAT turned ON and that the preset you are using and the preset you are switching to both have the expression Pedal Controllers assigned PEDAL VOLUME. If you were to reduce the volume of the current preset with the expression pedal and then changed to another preset, the new preset will assume the present position of the expression pedal. You WILL be able to increase the volume of the new preset with the expression pedal as both presets had the expression Pedal Controllers assigned to PEDAL VOLUME.

Example 2 assuming you have RUN STAT turned ON and you have reduced the volume of the current preset with the expression pedal and changed to a preset where the expression Pedal Controllers were assigned to control the Pitch Shift or Chorus or Reverb, etc. the new preset will assume the previous preset's pedal volume. However, you will NOT be able to use the pedal to increase the volume as you did in example 1. With RUN STAT turned ON, you would need to switch back to a preset that had the expression Pedal Controllers assigned to pedal volume, use the expression pedal to increase the volume and then switch back to the other preset.

This is something you should take into consideration when using the RUN STAT function.

The PEDAL STATUS parameter displays the current preset volume as determined by the pedal position.

NOTE: When the RUN STAT parameter is set to OFF, the UTOPIA G100 only recognizes volume changes from the expression pedal if PEDAL VOLUME is assigned to the pedal and it has been physically moved by the user.



Step 1 Turn the FUNCTION SELECT knob clockwise until PEDAL STATUS is displayed.

PEDAL STATUS

Pedal Status.....continued.....

Step 2 Turn the PARAMETER SELECT knob one step clockwise to the RUN STAT parameter.



Step 3 Turn the PARAMETER ADJUST knob to select ON for the RUN STAT parameter.



Step 4 Turn the PARAMETER SELECT knob one step clockwise to the PEDAL VOLUME parameter.



The PEDAL VOLUME parameter displays the current preset volume as determined by the pedal position. Move the expression pedal up and down and you will see the volume values change as the pedal moves.

Step 5 You now must store your changes. If you have made any changes to any parameter, the LED above the "STORE" button will light. Press the STORE button to save the changes you have made. "STORE AT PRESET" will flash intermittently with the current preset. If you would like to save this change to the current preset, press the STORE button again. To save this adjusted preset (and the parameters you have just changed) to a different preset location, use the PRESET SELECT knob to choose the preset destination and then press the STORE button again. Note that doing this will "over-write" the preset location you are saving to.



Factory Restore

The Factory Restore function allows you to restore presets 1-64 that you may have altered to their original condition as shipped from the factory. Either the entire UTOPIA G100 memory can be restored or a single preset can be restored. Note that you do NOT need to restore presets 65 to 128 as these are factory preset that can not be altered and stored.

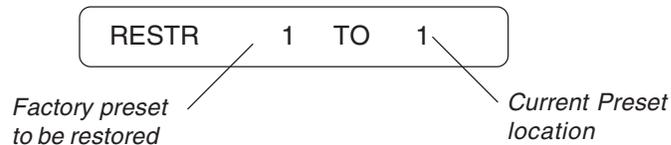
Restoring a single factory preset:



Step 1 Turn the FUNCTION SELECT knob clockwise to "FACTORY RESTORE".

FACTORY RESTORE

Step 2 Turn the PARAMETER SELECT knob one step clockwise to "RESTR 1 TO 1". The number on the left is the original factory preset number to be restored. The number on the right is the preset location that the preset will be stored into"



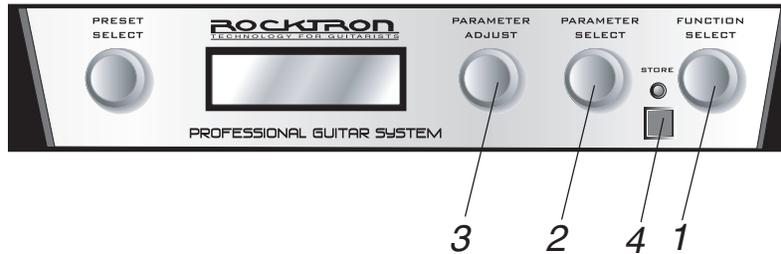
Step 3 Press the STORE button to restore the preset. The display will flash "RESTORED" and return to the preset name page.

RESTORED

Restoring all factory presets

!! CAUTION !!

This procedure will permanently erase all user presets (1-64) and replace them with the original factory presets. If you have altered and stored presets which you do not want to erase, do not perform the following procedure.



Step 1 Turn the FUNCTION SELECT knob clockwise to "FACTORY RESTORE".

FACTORY RESTORE

Step 2 Turn the PARAMETER SELECT knob 2 steps clockwise to "ALL RESTORE 0".

ALL RESTORE 0

Step 3 A specific code number must be entered to restore the UTOPIA G100 memory. Use the PARAMETER ADJUST knob to enter the number "22".

ALL RESTORE 22

!! WARNING !!

Pressing the STORE button at this time will permanently erase all user presets and replace them with the original factory presets. If you have altered and stored presets which you do not want to erase, turn the FUNCTION SELECT control to exit this function.

Step 4 Press the STORE button at this time to initiate the All Restore procedure and erase presets 1-64, replacing them with the original factory presets. The display will flash "RESTORED" as the UTOPIA G100 memory is restored.

RESTORED

The display will return to Preset 1

Selecting a Power on Preset:

The UTOPIA G100 allows you to store a Power On preset which will always be recalled when the unit is turned on.



Step 1 Turn the PRESET knob to the preset number you wish to be recalled each time the unit is turned on.

34 PRESET TITLE

Step 2 Press the STORE button. The screen will flash PWR ON PR STORED and then return to the preset name page.

PWR ON PR STORED

34 PRESET TITLE

In the above example, preset 34 has been saved so that when you turn the UTOPIA G100 on in the future, preset 34 will be the preset that is recalled.

Specifications

Input Impedance	1M Ohm
Maximum Input Level	+4 dBu @ 1KHz
Input Jack	1/4" mono
Maximum Output Level	+8 dBu
Output Jacks	1/4" Left and Right.
Headphone Jack	1/8" Stereo (Load Impedance 32 Ohm Min) Important: Listening to headphones at levels above 85 dBu may cause hearing damage! Due to hi output capabilities present in the HEADPHONE OUTPUTS it is recommended to that you turn down the global MASTER VOLUME parameter located in the GLOBAL FUNCTION of the G100 first before inserting your headphones.
Aux Input Jack	1/8" Stereo
Power Requirements	9VAC / 2.0A
Dimensions	With toe of expression pedal down 15 1/8" Wide x 9" Deep x 3 1/4" Tall 387mm Wide x 228mm Deep x 83mm Tall With toe of expression pedal up 15 1/8" Wide x 9" Deep x 4 7/8" Tall 387mm Wide x 228mm Deep x 124mm Tall

Utopia G100 Preset Listing - user presets

#	Preset Name	What it does	Pedal	Heel	Toe
1	Utopia G100	British Distortion w/Delay	Volume	Zero Volume	Full Volume
2	Clean Strat	Clean w/Reverb	Volume	Zero Volume	Full Volume
3	Whammy Man	British Distortion w/Delay	Pitch	Actual Pitch	Octave Higher
4	Studio Blues	Texas Distortion w/Reverb	Volume	Zero Volume	Full Volume
5	Great Tone	Mega Distortion w/Delay	Volume	Zero Volume	Full Volume
6	Twinverb	Clean with Reverb	Volume	Zero Volume	Full Volume
7	Jammin	British Distortion w/Delay	Volume	Zero Volume	Full Volume
8	High Dry	Mega Distortion	Volume	Zero Volume	Full Volume
9	Sweet Stevie	Texas Distortion	Volume	Zero Volume	Full Volume
10	1969 OK	British Distortion	Volume	Zero Volume	Full Volume
11	Lead One	Mega Distortion w/Delay	Volume	Zero Volume	Full Volume
12	Rythm+Boost	British Distortion	Gain	Gain @ 75%	Gain 100%
13	Liquid Clean	Clean with Reverb	Volume	Chorus Level -64	Chorus Level +4
14	Compress It!	Clean w/Reverb & Compression	Compressor	Compressor Off	Compressor ON
15	Magnum Edge	Mega with Delay	Delay Level	Delay Almost Off	Delay Up to +1
16	Thrash Lord	Mega Heavy	Volume	Zero Volume	Full Volume
17	Treble Sweep	Clean Chorus	Treble	Treble at 0	Treble at 10
18	Phase In&Out	Clean Phase	Phase Mix	Zero Effect	Full Effect
19	Trem-Tastic	Clean Tremolo w/Depth Control	Tremolo Depth	Tremolo at 0	Tremolo Depth 50%
20	Gain-O-Matic	British Dist.w/Gain Control	Gain	Gain at 25%	Gain at 100%
21	Austin Gold	British Dist. w/Reverb Control	Reverb Level	Zero Reverb	Reverb -6
22	Burning Wah	British Distortion w/Wah	Wah Frequency	310	2600
23	Blue Phase	British Distortion w/Phaser	Volume	Full off	Full On
24	Monster Axe	Mega Distortion w/Pitch Shift	Volume	Full off	Full on
25	Boomer	Mega Distortion w/Pitch Shift	Pitch	-1200 1 Oct.Down	= to the played pitch
26	Stone Wammy	Mega Dist. w/ Wammy Effect	Pitch	= to played Pitch	1200 - full Octave Up
27	Stereo Dist.	Mega Dist. w/Stereo Effect	Volume	Full off	Full On
28	Bad Cat	Mega Dist. w/Wammy Bar Effect	PITCH	-2400 2 OCT.DOWN	+1200 FULL OCTAVE UP
29	Chorus Rhythm	British Dist. w/Chorus Effect	Chorus Depth	Zero Depth	Depth up to 24
30	Accelerate	Mega Distortion with Tremolo	Tremolo Rate	Zero Rate	254 Rate
31	Pedal Steel	Mega Dist. w/Pedal Steel Effect	Pitch	= to played Pitch	+200 1 Step Up
32	Neck Pickup	Texas with Delay	Volume	Full off	Full On
33	X-Long Delay	Mega Dist. w/Extra Long Delay	Volume	Full off	Full On
34	Recto-Fried	Mega Dist. w/Rectified Sound	Volume	Full off	Full On
35	Recto-Phase	Mega Dist. w/Rectified Sound & PHA	Phaser Depth	Zero Depth	100% Depth
36	Add Bottom	Mega Dist. w/Pitch Shift Effect	Pitch Level	-34 Level	-1 Level
37	Sweet Dream	Mega Distortion	Flanger Level	-60 Level	-2 Level
38	Wide Open	Clean	Volume	Full off	Full On
39	Hit the Deck	Mega Dist. w/Delay & Pitch Shift	Pitch	Pitch down a step	Normal Pitch
40	CAVEMAN	Mega Dist. w/ a lot of Reverb Decay	Reverb Level	Full off	Full On
41	Rectro-Chorus	Mega Dist. w/Chorus	Chorus Level	Full off	Full On
42	Rectro-Flange	Mega Dist. w/Flanger	Flanger Level	Full off	Full On
43	SITARATE	Clean with Pitch Sitar Effect	Reverb Decay	ZERO DECAY	80
44	Volume Swell	Clean with a lot of Reverb Decay	Volume	Full off	Full On
45	Wammy Bar	Mega Distortion with Pitch	Pitch	1 Octave Down	= to the played pitch
46	Old Organ	Clean with Pitch	Volume	Full off	Full On
47	Scoop Sweep	Mega Distortion	Bright	Bright Off	Bright On
48	Make-It-Wet	British Distortion	Chorus Level	Almost Off	Chorus Full On +4
49	Stack-It-All	British Distortion with Delay	Delay Level	Delay Off	Delay Full On
50	5th Take	Mega Dist. w/Delay/Pitch up a 5th	Pitch Level	Pitch Off	Pitch Full On
51	Scream!	Mega Dist. w/Delay/Pitch 1 Oct. UP	Pitch Level	Slightly on	Full On
52	Up-The-Gain	Mega Dist. with Delay	Gain	30% Gain	100% Gain
53	Crunchmaster	Texas Dist. with Reverb	Volume	Full off	Full On
54	Blue Flange	British Dist. w/Flanger Effect	Flanger Level	Almost Off	Full On
55	Curvy Tone	Mega Dist. w/Phaser Effect	PHA Mix/Direct	No Phaser	Phaser/Dry Equal Mix
56	Curvy Clean	Clean with Phaser Effect	PHA Mix/Direct	No Phaser	Phaser/Dry Equal Mix
57	Choke It!	Mega Dist. w/Tremolo Effect	Tremolo Depth	Zero Depth	100% Depth
58	Clean Coils	Clean	Volume	Full off	Full On
59	Edgy Coils	Edgy Single Coil Sound w/Phaser	Phaser Mix	No Phaser	Phaser/Dry Equal Mix
60	Echo Etude	Clean with Delay	Volume	Full off	full on
61	Razor's Edge	Mega Dist. w/Phaser Resonator	PHA Resonance	No Resonance	Full Resonance
62	Mean Machine	Mega Distortion Scooped!	Volume	Full off	Full On
63	Mind The Gap	British Distortion with Reverb	Volume	Full off	Full On
64	Dreamscape	Clean with Flanger	Flanger Level	Full off	Full On

Utopia G100 Preset Listing - factory presets

#	Preset Name	What it does	Pedal	Heel	Toe
65	Utopia G100	British Distortion w/Delay	Volume	Zero Volume	Full Volume
66	Clean Strat	Clean w/Reverb	Volume	Zero Volume	Full Volume
67	Whammy Man	British Distortion w/Delay	Pitch	Actual Pitch	Octave Higher
68	Studio Blues	Texas Distortion w/Reverb	Volume	Zero Volume	Full Volume
69	Great Tone	Mega Distortion w/Delay	Volume	Zero Volume	Full Volume
70	Twinverb	Clean with Reverb	Volume	Zero Volume	Full Volume
71	Jammin	British Distortion w/Delay	Volume	Zero Volume	Full Volume
72	High Dry	Mega Distortion	Volume	Zero Volume	Full Volume
73	Sweet Stevie	Texas Distortion	Volume	Zero Volume	Full Volume
74	1969 OK	British Distortion	Volume	Zero Volume	Full Volume
75	Lead One	Mega Distortion w/Delay	Volume	Zero Volume	Full Volume
76	Rythm+Boost	British Distortion	Gain	Gain @ 75%	Gain 100%
77	Liquid Clean	Clean with Reverb	Volume	Chorus Level -64	Chorus Level +4
78	Compress It!	Clean w/Reverb & Compression	Compressor	Compressor Off	Compressor ON
79	Magnum Edge	Mega with Delay	Delay Level	Delay Almost Off	Delay Up to +1
80	Thrash Lord	Mega Heavy	Volume	Zero Volume	Full Volume
81	Treble Sweep	Clean Chorus	Treble	Treble at 0	Treble at 10
82	Phase In&Out	Clean Phase	Phase Mix	Zero Effect	Full Effect
83	Trem-Tastic	Clean Tremolo w/Depth Control	Tremolo Depth	Tremolo at 0	Tremolo Depth 50%
84	Gain-O-Matic	British Dist.w/Gain Control	Gain	Gain at 25%	Gain at 100%
85	Austin Gold	British Dist. w/Reverb Control	Reverb Level	Zero Reverb	Reverb -6
86	Burning Wah	British Distortion w/Wah	Wah Frequency	310	2600
87	Blue Phase	British Distortion w/Phaser	Volume	Full off	Full On
88	Monster Axe	Mega Distortion w/Pitch Shift	Volume	Full off	Full on
89	Boomer	Mega Distortion w/Pitch Shift	Pitch	-1200 1 Oct.Down	= to the played pitch
90	Stone Whammy	Mega Dist. w/ Whammy Effect	Pitch	= tplayed Pitch	1200 - full Octave Up
91	Stereo Dist.	Mega Dist. w/Stereo Effect	Volume	Full off	Full On
92	Bad Cat	Mega Dist. w/Wammy Bar Effect	PITCH	-2400 2 OCT.DOWN	+1200 FULL OCTAVE UP
93	Chorus Rhythm	British Dist. w/Chorus Effect	Chorus Depth	Zero Depth	Depth up to 24
94	Accelerate	Mega Distortion with Tremolo	Tremolo Rate	Zero Rate	254 Rate
95	Pedal Steel	Mega Dist. w/Pedal Steel Effect	Pitch	= to played Pitch	+200 1 Step Up
96	Neck Pickup	Texas with Delay	Volume	Full off	Full On
97	X-Long Delay	Mega Dist. w/Extra Long Delay	Volume	Full off	Full On
98	Recto-Fried	Mega Dist. w/Rectified Sound	Volume	Full off	Full On
99	Recto-Phase	Mega Dist. w/Rectified Sound & PHA	Phaser Depth	Zero Depth	100% Depth
100	Add Bottom	Mega Dist. w/Pitch Shift Effect	Pitch Level	-34 Level	-1 Level
101	Sweet Dream	Mega Distortion	Flanger Level	-60 Level	-2 Level
102	Wide Open	Clean	Volume	Full off	Full On
103	Hit the Deck	Mega Dist. w/Delay & Pitch Shift	Pitch	Pitch down a step	Normal Pitch
104	CAVEMAN	Mega Dist. w/ a lot of Reverb Decay	Reverb Level	Full off	Full On
105	Retro-Chorus	Mega Dist. w/Chorus	Chorus Level	Full off	Full On
106	Retro-Flange	Mega Dist. w/Flanger	Flanger Level	Full off	Full On
107	SITARATE	Clean with Pitch Sitar Effect	Reverb Decay	ZERO DECAY	80
108	Volume Swell	Clean with a lot of Reverb Decay	Volume	Full off	Full On
109	Wammy Bar	Mega Distortion with Pitch	Pitch	1 Octave Down	= to the played pitch
110	Old Organ	Clean with Pitch	Volume	Full off	Full On
111	Scoop Sweep	Mega Distortion	Bright	Bright Off	Bright On
112	Make-It-Wet	British Distortion	Chorus Level	Almost Off	Chorus Full On +4
113	Stack-It-All	British Distortion with Delay	Delay Level	Delay Off	Delay Full On
114	5th Take	Mega Dist. w/Delay/Pitch up a 5th	Pitch Level	Pitch Off	Pitch Full On
115	Scream!	Mega Dist. w/Delay/Pitch 1 Oct. UP	Pitch Level	Slightly on	Full On
116	Up-The-Gain	Mega Dist. with Delay	Gain	30% Gain	100% Gain
117	Crunchmaster	Texas Dist. with Reverb	Volume	Full off	Full On
118	Blue Flange	British Dist. w/Flanger Effect	Flanger Level	Almost Off	Full On
119	Curvy Tone	Mega Dist. w/Phaser Effect	PHA Mix/Direct	No Phaser	Phaser/Dry Equal Mix
120	Curvy Clean	Clean with Phaser Effect	PHA Mix/Direct	No Phaser	Phaser/Dry Equal Mix
121	Choke It!	Mega Dist. w/Tremolo Effect	Tremolo Depth	Zero Depth	100% Depth
122	Clean Coils	Clean	Volume	Full off	Full On
123	Egy Coils	Egy Single Coil Sound w/Phaser	Phaser Mix	No Phaser	Phaser/Dry Equal Mix
124	Echo Etude	Clean with Delay	Volume	Full off	full on
125	Razor's Edge	Mega Dist. w/Phaser Resonator	PHA Resonance	No Resonance	Full Resonance
126	Mean Machine	Mega Distortion Scooped!	Volume	Full off	Full On
127	Mind The Gap	British Distortion with Reverb	Volume	Full off	Full On
128	Dreamscape	Clean with Flanger	Flanger Level	Full off	Full On

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G1000

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