



## Table of Contents

<b>1</b>	<b>Knobs and Buttons</b>	<b>Page 1</b>
<b>2</b>	<b>Footswitches and LEDs</b>	<b>2</b>
<b>3</b>	<b>Expression Input</b>	<b>3</b>
<b>4</b>	<b>Tap-Tempo Input</b>	<b>3</b>
<b>5</b>	<b>Saving Presets</b>	<b>4</b>
<b>6</b>	<b>Options</b>	<b>4</b>
<b>7</b>	<b>Global Settings</b>	<b>5</b>
<b>8</b>	<b>Algorithms</b>	<b>6-8</b>
<b>9</b>	<b>Expression / Ramping Setup</b>	<b>9</b>
<b>10</b>	<b>Factory Reset</b>	<b>10</b>

## 1. Knobs and Buttons

👉 Every knob is also a button. The following operations can be done on each knob :



Here's a summary of what each knob and each switch does, this is just a quick reference, more detailed explanation will be given in the next chapter.



### KNOB 1, 2, and 3

- Turn - adjust primary parameters.
- Push - toggle expression mapping for the parameter.
- Hold - enter expression *heel/toe* value setup.
- Twist - Adjust secondary parameter (see table below).

### KNOB 4

- Turn - select modes.
- Push - Enter OPTIONS menu.
- Hold - enter GLOBALS setting menu.
- Twist - Adjust secondary parameter (see table below).

Modes	Primary Parameters			Secondary Parameters		
	knob 1	knob 2	knob 3	knob 1	knob 2	knob 3
ENVELOPE FILTER	Sensitivity	Range	Mix	Up/Down	Q	Filter Type
STEP FILTER	Speed	Step Edit	Mix	Step size	Range	Filter Type
MANUAL FILTER	Frequency	Range	Mix	Taper	Q	Filter Type

## 2. Footswitches and LEDs

### ENGAGE / RAMP SWITCH

#### TAP

-> bypass / engage

**HOLD** (when bypassed) for > 500 ms  
-> engages momentarily

**HOLD** (when engaged) for > 500 ms  
-> start parameter ramping.



TEMPO LED

### A/B - TAP SWITCH

#### TAP

-> change preset (A <-> B)

**HOLD** for 1 second

-> enter tap-tempo mode: when tempo LED stops blinking you may tap in the new tempo\*.

\* Tap-tempo is applicable only in Step Filter mode.

Orange: Preset A, Green : Preset B

### Momentary Operation

< when bypassed > ~ Holding the Engage/Ramp button down for at least 1/2 sec triggers *momentary operation*, i.e pedal will revert to bypassed state when footswitch is released.

### Ramping

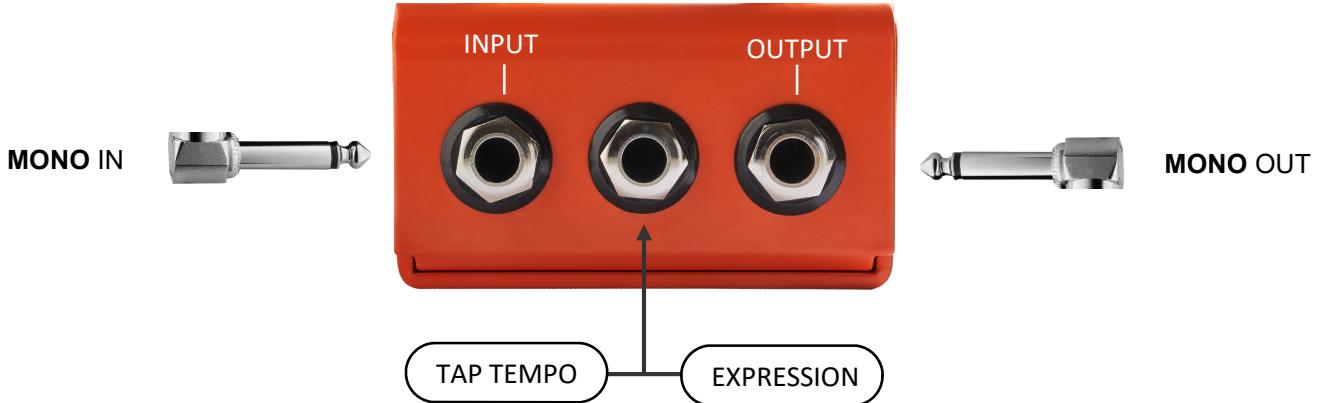
< when engaged > ~ Holding the button for at least 1/2 sec triggers *ramping operation* : a mapped parameters is ramped from its initial value to pre-configured final value, and stays at that final value for as long as the footswitch is held down. When switch is released the parameter gradually returns to its initial value.



### A/B - TAP switch Priority.

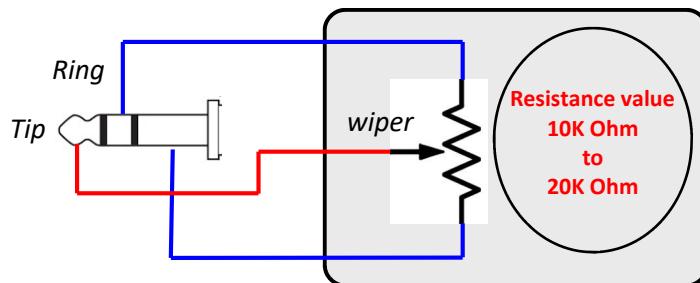
Priority for the A/B-TAP footswitch can be reversed in Global setting (see page 6 for details).

## USER MANUAL



### 3. Expression Input

An expression pedal may be used to control any one of the primary parameters, alternatively a tap tempo pedal may be used to remotely send tap tempo signal to the pedal.



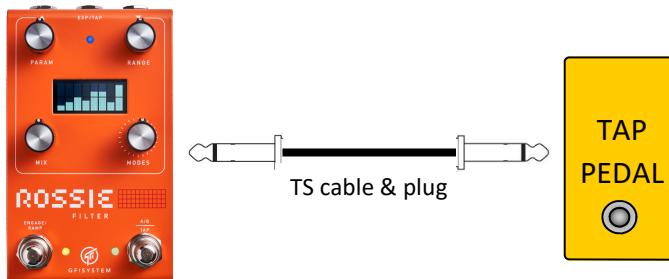
#### Expression Pedal requirement.

Some expression pedal on the market has its wiper connected to the Ring instead, this will not work with Rossie. Make sure you get the suitable type : *Wiper-to-Tip*.

Wiper resistance value should be 10 to 20 KOhm.

### 4. Tap Tempo Input

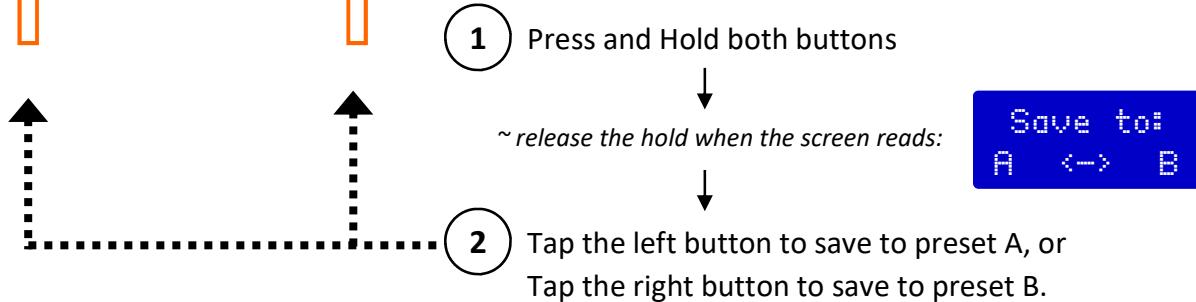
A tap-tempo pedal may be connected to the EXP/TAP input to remotely tap in the tempo. The switch contact must be 'Normally-Opened' (NO) type.



#### Auto detection

Upon power up Rossie will automatically detect the presence (or absence) of an expression pedal or a tap-tempo pedal. Therefore, after plugging/unplugging the external gear you need to recycle power to the Rossie to let it detect the changes.

## 5. SAVING PRESETS



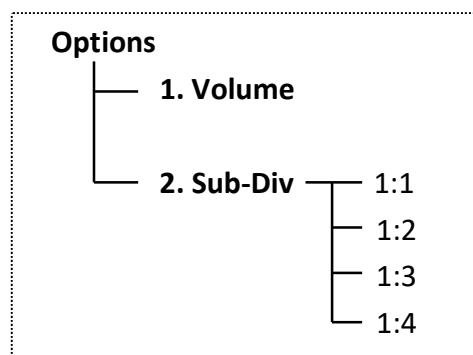
-  If, after entering the Preset-Save scene, you change your mind and would like to exit without saving any changes, you can do so by :
- Holding both buttons again for 2 seconds.  
OR
  - Doing nothing for 5 seconds, you will automatically return to the main scene.

## 6. OPTIONS

 - options settings are specified on *per/preset* basis.


Tap the MODES button to enter Options menu.

Use the MODES knob/button to navigate around the menu.



## 7. Global Setting



Press and hold the MODES button for 2 secs to enter Globals menu.

Use the MODES knob/button to navigate around the menu.

### Globals

- 1. Tempo
  - Preset : use tempo as saved in preset.
  - Global : use global tempo.
  
- 2. Priority
  - A/B : Changing preset is priority.
  - Tap : Tap-tempo is priority.



The Priority setting determines how the A/B-Tap button behaves.

#### Priority set to A/B (default)

- Tapping the A/B-Tap button toggles between preset A and preset B.
- Holding the A.B-Tap button for 1 second enters tap-tempo mode where the button functions as tap-tempo button. The button reverts back its normal function as preset-change button after 2 seconds of non-activity on the button.

#### Priority set to Tap-Tempo

- Tapping the A/B-Tap button sets a new tempo.
- Holding the A/B-Tap button for 1 second toggles between preset A and preset B.

## 8. Algorithms

### 8.1 ENVELOPE FILTER

This is a highly flexible envelope-controlled filter that follows the dynamic of your picking. Direction of the filter sweep may be set to UP (standard envelope filter) or DOWN. Vast palette of sound is readily accessible through a selection of four distinct filter types: *lowpass*, *bandpass*, *highpass*, and *peaking*.

**PARAM knob** - adjusts the sensitivity of the envelope detector. Set it to lower values when your guitar has higher pickup output level, and set it to higher values if the pickup has lower output level.

**RANGE knob** - adjusts the range of the frequency sweep.

**MIX knob** - adjusts the wet and dry mix.

#### Secondary parameters

**Direction:**

- Up
- Down

**Q (filter bandwidth)**

- Low
- Medium
- High
- Sharp

*Higher setting gives more pronounced filtering*

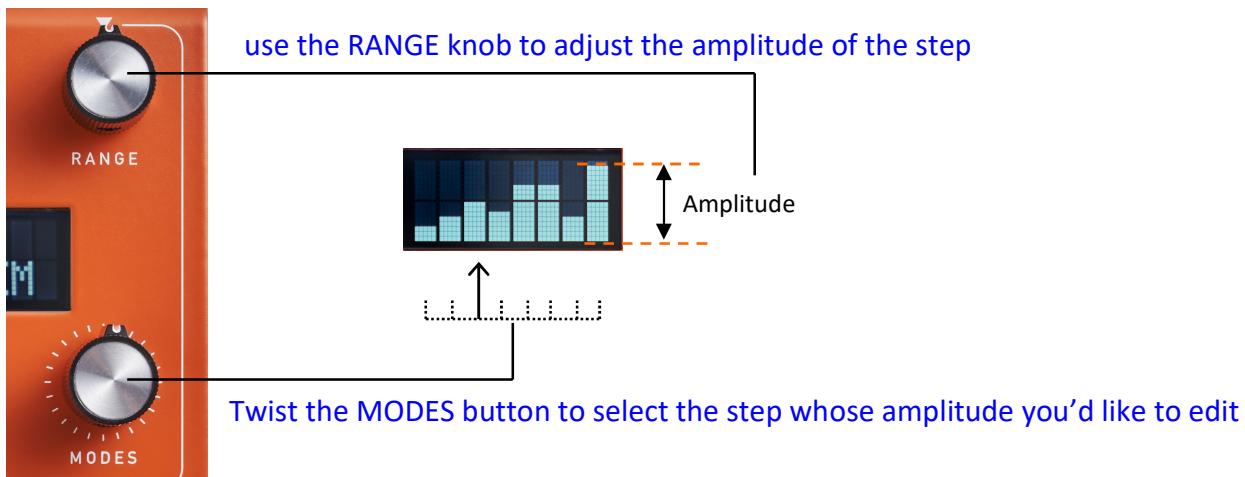
**Filter Types:**

- Lowpass
- Bandpass
- Highpass
- Peaking

## 8. Algorithms

### 8.2 STEP FILTER

This is a dynamic filter where the resonance frequency is arpeggiated (stepped) continuously. The number of steps is selectable from 4 to 8, and the amplitude of each step is freely adjustable. Tempo of the stepping can be tapped, with four selectable subdivisions. Again, four distinct filter types are available to choose from.



**PARAM** knob - adjusts the tempo of the stepping.

**RANGE** knob - adjusts the amplitude of the steps.

**MIX** knob - adjusts the wet and dry mix.

#### Secondary parameters

##### **Number of steps:**

- 4
- 5
- 6
- 7
- 8
- Random

##### **Range**

Adjusts the range of the frequency sweep.

##### **Filter Types:**

- Lowpass
- Bandpass
- Highpass
- Peaking



In 'Random' mode the number of steps is fixed to 8 and the amplitude of the steps are randomly modulated, this creates a nice 'jumpy' filter groove!

## 8. Algorithms

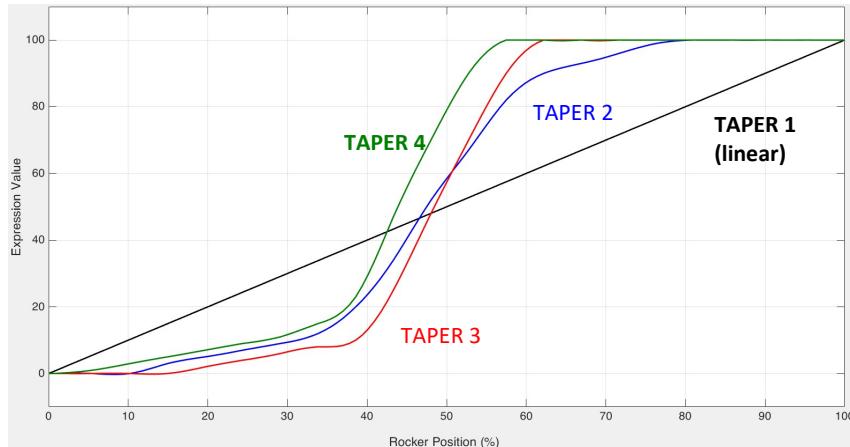
### 8.3 Manual Filter

This mode offers a set of filters whose resonance frequency is manually controlled via a knob or an expression pedal.



#### Rossie as a Wah pedal

- Map the expression pedal to the frequency parameter (Param knob).
- Set the desired *Heel* and *Toe* values.
- Select filter type to Lowpass or Bandpass.
- Select one of the Taper styles to your liking.



The potentiometers in wah pedals have different taper characteristics, which determines the *feel* as the rocker sweeps through its sweep range.

Rossie provides 4 different taper styles to choose from. Choose one that feels best for the application at hand.

**PARAM knob** - adjusts the resonance frequency of the filter.

**RANGE knob** - adjusts the amplitude of the steps.

**MIX knob** - adjusts the wet and dry mix.

#### Secondary parameters

##### **Taper:**

- Taper 1
- Taper 2
- Taper 3
- Taper 4

##### **Q (filter bandwidth)**

- Low
- Medium
- High
- Sharp

*Higher setting gives more pronounced filtering*

##### **Filter Types:**

- Lowpass
- Bandpass
- Highpass
- Peaking

## 9. Expression / Ramping Setup

Up to 3 primary parameters may be mapped to the expression pedal / ramping function.



**Push the knob's button to toggle the parameter mapping.**



Exp Pedl  
mapped



Exp Pedl  
unmapped

**Setting up the *Heel* and *Toe* values for expression pedal (and ramping function).**

Suppose you want to map a parameter knob to the expression pedal or the ramping function :

- Turn the knob until you find the desired *Heel* value.
- Hold down the knob. After 2 seconds the screen will show the *Heel* / *Toe* information, keep holding the knob down.

Heel	20
Toe	80

- Now turn the knob (while still holding it down) to find the desired *Toe* value. When you find it, release the knob.

The parameter is now mapped to the expression pedal. Rocking the expression pedal will sweep the mapped parameter to any value within the range specified by *Heel* and *Toe* values.

*Heel* position



*Toe* position



The *Toe* value set using the above procedure will also be the “*end value*” for the Ramping function.

For ramping operation, the Heel value is not needed, the “*base value*” is effectively the ‘current knob position’.



**Changes to the *Heel* and *Toe* values are automatically saved into the current preset.**

## 10. Factory Reset



Press and hold the MODES button while powering up the pedal.

Keep holding until the screen reads:

Reset?  
NO YES

Turn the MODES knob to select No / Yes, then push the MODES button to confirm - if you select Yes factory reset will be performed and the pedal will then start as normal.

### Specifications :

- Input impedance : 1 MOhm.
- Output impedance : 1K Ohm.
- DAC / ADC resolution : 24 bits.
- Current consumption : ~110 mA.
- Weight : 0.6 Kg (1.6 lbs).
- Dimension : 12 (L) x 7.2 (W) x 5.5 (H) cm
- Power source : 9VDC (negative center).

### Key Features :

- 2 presets.
- 3 select Filter algorithms.
- Mono input and output.
- Expression pedal and tap-tempo input.
- Momentary action supported.

Visit the product page at our website for more demo videos, sound clips, FAQs, and updates.

This product is designed and manufactured by :