

# ROCKTRON

TECHNOLOGY FOR GUITARISTS



## Reaction Chromatic Tuner Instruction Manual



# Compliance



Your Reaction Chromatic Tuner™ pedal has been tested and complies with the following Standards and Directives as set forth by the European Union:

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

**Standard(s):** EN55013, EN50082-1

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

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

For more information about other Rocktron products, please see your local dealer or one of our importers closest to you (listed on the Rocktron website ([www.rocktron.com](http://www.rocktron.com))).

Read all instructions contained in this manual.

Keep these instructions

Heed all warnings

Follow all instructions.

Do not use this apparatus near water.

Clean with dry cloth

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# Precautions

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. QUALIFIED PERSONNEL SHOULD SERVICE THIS EQUIPMENT ONLY. DO NOT MAKE ANY INTERNAL ADJUSTMENTS OR ADDITIONS TO THIS EQUIPMENT AT ANY TIME OR TAMPER WITH INTERNAL ELECTRONIC COMPONENTS AT ANY TIME. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID THE WARRANTY OF THIS EQUIPMENT AS WELL AS CAUSING A 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.

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.

This product is not equipped with a plug or cable. This pedal runs on a 9 Volt Battery, if a 9Volt DC adapter is the used please follow adapter manufacturer's operation instructions. 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 lightening storms or when unused during long periods of time.

## Introduction

Thank you for purchasing the Rocktron Reaction Chromatic Tuner. Simple to use, the Reaction Tuner makes things easy with a large segment note display that offers easy viewing. Flashing FLAT and SHARP LEDs also make it easy to see just where your tuning is and how close you are to getting into tune. A bright blue LED shows you precisely when you, in fact, are in tune.

When turned on, the Reaction Tuner output is muted, thus allowing for silent tuning. The Reaction Tuner offers a calibration button that allows you to adjust the tuner in order to tune to instruments that are “out of tune”, such as an old piano.

Rocktron's Reaction Series pedals are built into a rugged metal slim form factor chassis, taking up as little space as possible on your pedalboard. The Reaction Tuner is a TRUE BYPASS pedal: when you turn it off...it is out of your signal path!

The footswitch on the Reaction Tuner controls On/Off status as shown by the LED indicator. Reaction stomp boxes run on a 9V Alkaline battery, or may also be powered by Rocktron's DC OnTap Universal Power Supply adaptor.

# Descriptions



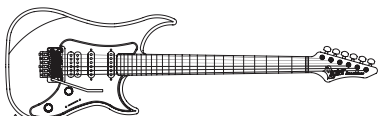
## Descriptions continued.....

- 1 NOTE Display - The note being played will show on this display. If the note is “sharp” the “sharp” (#) symbol will “light.”
- 2 FLAT Indicator LED - this flashing LED will light if the note being played is flat. The more “flat” the note is, the faster the LED will flash.
- 3 IN TUNE LED - when the note being played is “in tune” this LED will light.
- 4 9VDC Input - This input jack (negative tip) provides 9VDC power to the pedal from the Rocktron DC OnTap 9V power supply (sold separately).
- 5 SHARP Indicator LED - this flashing LED will light if the note being played is sharp. The more “sharp” the note is, the faster the LED will flash.
- 6 CALIBRATE Button - this button is used to calibrate the tuner to match the pitch of any instrument or audio source (like an old piano or tape player). For details on this function - see section titled “Calibration.”

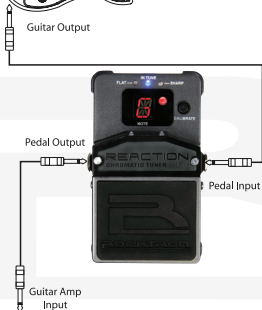
## Descriptions continued.....

- 7 ON/OFF LEDs - These LEDs shows if the pedal is on or off. When the LEDs are lit the pedal is on. When the LEDs are not lit the pedal is off.
- 8 BATTERY COMPARTMENT and COVER - The 9V battery can be found in this compartment.
- 9 INPUT Jack - Using a standard 1/4" guitar cable, plug your guitar into this jack.
- 10 THUMB SCREWS for Battery Compartment. Unscrew these thumb screws to access the battery compartment.
- 11 FOOTSWITCH - Use this switch to turn on or off the pedal. The On/Off LEDs will show you if the pedal is on or off. When the pedal is "ON" the output to the other pedals or amplifier is "MUTED".
- 12 OUTPUT Jack - Using a standard 1/4" guitar cable you can plug in another pedal from this jack or plug directly into your amplifier.

# Typical Connection



Guitar Output



Pedal Output

Pedal Input

Guitar Amp  
Input





# Tuning Instructions:

Step 1 - plug the guitar/bass into the tuner - see “connections” section.

Step 2 - play a note on your guitar. Pluck your E string, if needed, adjust your tuning machine on your instrument until the letter “E” appears in the NOTE Display window.

Step 3 - if your note is flat - the “FLAT” LED will light and flash. The speed of the flash will show you by how much your string is flat. If the Flat LED is flashing rapidly, tune your string up. During this process the LED will begin flashing slower.

Step 4 - if your note is sharp - the “SHARP” LED will light and flash. The speed of the flash will show you by how much your string is sharp. If the Sharp LED is flashing rapidly, tune your string down. During this process the LED will begin flashing slower.

Step 5 - Continue with step 3 or step 4 until the flat or sharp LED stops flashing and the blue “IN TUNE” LED lights. At this point the string is in tune.

Step 6 - Continue steps 2-5 but using your other strings on your guitar or bass.

## Calibration:


To match the pitch of any instrument or audio source (like an old piano or tape player) press the “Calibrate” button while simultaneously playing the note on the instrument. (Note: you might have to first tune one string on the guitar or bass by ear to match the actual note if the piano is out of standard tuning or if the tape player you are playing along with runs slower or faster than normal). Once you have one note on the guitar tuned to the source - simply play that note on the guitar - while the note is “ringing” press the Calibrate button. The tuning pitch of the tuner will automatically be shifted to match the pitch of the audio source. Release the button and tune the remaining strings as normal with the tuner. The tuner at this point has automatically adjusted the tuning range to match that pitch. To reset the tuner to standard 440Hz pitch turn off the tuner and then back on again with the footswitch (see controls - point 6).

## Hints and Tips:

The Reaction Tuner is sensitive, so it is not necessary to strike your string very hard, standard string attack will work. Additionally, if you are in a loud environment try using harmonics to tune your instrument. Lightly touch the string over the 12th fret of your instrument and pick the string with normal pick attack. This will create a harmonic. It will work on all strings. The MUTED Output is ideal for tuning in live situations. This allows you to tune without everyone in the audience hearing you tune. Additionally, this will mute the signal going to your amplifier which will help you keep down noise generated if you are using a high gain amplifier.

As with all stomp boxes, when you are not using it, unplug all cables to prolong battery life.

# Specifications

Maximum Input	+8dBu
Maximum Output	+6Bu
Input Impedance	1M $\Omega$
Output Impedance	1k $\Omega$
Current Consumption	20mA
Power Requirements	9V Alkaline Battery or Rocktron DC OnTap Universal Power Supply (sold separately). Negative Tip.
	DC 9V 
Dimensions	125mm x 78mm 61mm 5" x 3.25" x 2.5"
Weight	0.7kg 1.5lbs

## How to change the battery:

To change the battery, remove the thumb screws on the top of the pedal and remove the battery compartment cover. Remove the old battery and replace it with a new 9V Alkaline battery. Replace battery in the same area as the old battery was located. Place the battery compartment cover on the pedal and re-insert the thumb screws.

*Save yourself tons of money in batteries by using the Rocktron DC OnTap Universal Power Supply to power this pedal (sold separately). The Rocktron DC OnTap provides a constant flow of power to the pedal, unlike a battery that will degrade over time. The Rocktron DC OnTap Universal Power Supply can also power up to 20 pedals and can be used with both 110V and 220V power sources.*

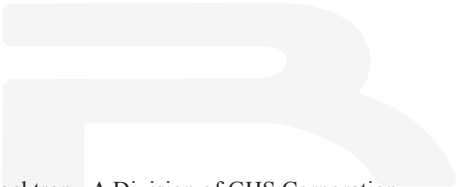
*Check, [www.rocktron.com](http://www.rocktron.com) for more information on the DC OnTap and where to purchase.*





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Rocktron - A Division of GHS Corporation  
2813 Wilber Ave  
Battle Creek MI 49037  
USA

[www.rocktron.com](http://www.rocktron.com)  
[info@rocktron.com](mailto:info@rocktron.com)  
tel: 1-269-968-3351